

DRINKING WATER SURVEY REPORT

**FORMER DELFASCO FORGE FACILITY
VCP NO. 1571
114 NORTHEAST 28TH STREET
GRAND PRAIRIE, TEXAS 79044**

Prepared for:



**Delfasco Inc.
733 West Hurst Blvd.
Hurst, Texas 76053**

Prepared by:



**EnSafe Inc.
4545 Fuller Drive, Suite 342
Dallas, Texas 75038
(972) 791-3222
www.ensafe.com**

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EXECUTIVE SUMMARY

In accordance with Texas Commission on Environmental Quality's (TCEQ) *Preparation of a Drinking Water Survey Report and Instructions for Collecting and Submitting Site and Private Water Well Location Information*, EnSafe Inc. (EnSafe) has performed a Drinking Water Survey for the former Delfasco Forge Facility and has prepared this Drinking Water Survey Report. The former Delfasco facility is located at 114 Northeast 28th Street, Grand Prairie, Dallas County, Texas and is under the TCEQ Voluntary Cleanup Program (VCP), VCP No. 1571. In 2002, during subsurface investigation activities conducted by EnSafe, groundwater at the former Delfasco facility was discovered to have been affected by trichloroethylene (TCE). Subsequent investigation activities discovered affected groundwater is present offsite. At that time, EnSafe estimated the boundaries of the groundwater plume and provided notification to appropriate property owners.

EnSafe submitted an *Amended Voluntary Cleanup Program (VCP) Agreement and Project Update, Former Delfasco Forge Facility 114 Northeast 28th Street, Grand Prairie, VCP No. 1571*, (January 21, 2005). The data included in this January 21, 2005 submittal was intended to provide a project summary update to support the request for a deadline extension to the Affected Property Assessment Report (APAR) and although the investigation was not complete (i.e. impacted groundwater and soil had not been fully delineated), the extension was denied and EnSafe submitted the APAR in May 2005. The January letter was not intended to be a comprehensive report, and therefore, did not contain all the information generated to date. The TCEQ issued a response letter dated February 17, 2005 and requested that a *Receptor Survey Report* be submitted that met the requirements set forth in the TCEQ document, *Minimum Requirements for a Receptor Survey*. The Receptor Survey Report was submitted in March 2005, and satisfied TCEQ's request and identified and evaluated possible receptors to the affected groundwater surrounding the former Delfasco Forge Facility. TCEQ

In August 2004, an initial field survey of properties within the search radius (0.25-miles from the site) identified three private wells for the *Receptor Survey Report*. The field survey consisted of a water well survey mailing to all residents within the search radius, and a door-to-

door survey of these residents that was assisted by the City of Grand Prairie Environmental Services Department. Two of these wells (PW01 and PW03) were dry upon inspection. Private well PW02 did contain water and was sampled for volatile organic compounds (VOCs); low levels of TCE and its daughter products were detected. The resident was notified of the results and although the well was not being used, EnSafe recommended to the property owner in a notification letter that water from the well should not be used in the future.

EnSafe conducted a local drinking water source survey, field survey of water wells, and a water well record survey to meet TCEQ's *Drinking Water Survey Report* requirements. Local public water supply (PWS) is supplied by the City of Grand Prairie. According to the City of Grand Prairie and the PWS map enclosed in this report, all properties within the search radius (0.25-miles from the plume boundary) are serviced by the City of Grand Prairie PWS.

In March 2006, an expanded field survey of properties within the search radius (0.25-miles from the plume boundary) identified eight private wells and one public well. The field survey consisted of a water well survey mailing to all residents within the search radius, and a door-to-door survey of these residents. The existence and/or location of five additional reported wells have not been confirmed by EnSafe. Results of the March 2006 field survey were provided to TCEQ on March 24, 2006 so that additional affected and potentially affected private water well owners could be notified.

The water well record surveys identified four wells in the search radius (0.5-miles). Three of the four wells were plugged and abandoned. One well (State Well ID No. 3309703) is still active and reportedly used by the City of Grand Prairie as an emergency PWS well. The well is steel-cased to its total depth of 2,163 feet below ground surface (bgs), and is screened from 2,006 to 2,163 bgs. Due to the depth of the well, construction type, and distance from the affected groundwater plume, it is unlikely that the groundwater in this well has been affected by the groundwater plume.

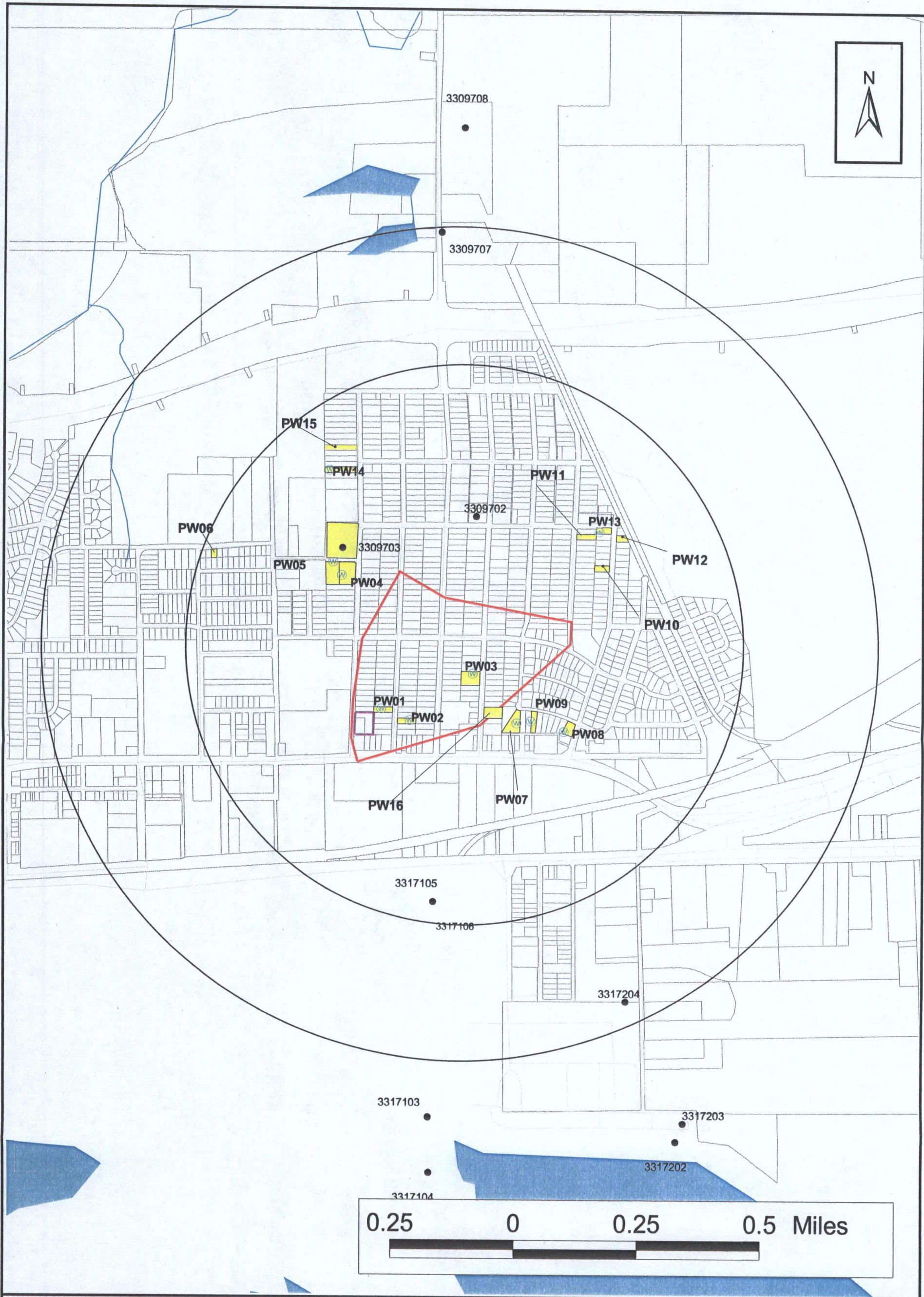
To determine changes in the status of the receptor sites and to ensure receptor sites are not being utilized, monitoring of the identified receptor sites will occur throughout the subsurface investigation.

1.0 INTRODUCTION

Delfasco Forge Division (Delfasco) is currently under the Texas Commission on Environmental Quality (TCEQ) Voluntary Cleanup Program (VCP) Agreement for the release investigation at the former Delfasco Forge facility at 114 Northeast 28th Street, Grand Prairie, Texas (VCP No. 1571). Groundwater in this area is affected by primarily trichloroethylene (TCE) and its daughter products. The estimated lateral extent of the affected groundwater, as determined by results from investigation activities to date, is illustrated on Figure 1.1 and in greater detail on Figure 1.2. A groundwater summary table is included in Table 3.3. An Affected Property Map (Figure 1.3) is included in the report illustrating the location of properties affected by the groundwater plume in the vicinity of the former Delfasco Forge facility and numbers have been assigned to the affected properties which correspond to the Affected Property Table (Table 3.1).

EnSafe, on behalf of Delfasco, has made frequent correspondence to TCEQ regarding investigation activities conducted at the former Delfasco facility. Included in Appendix A, are address labels to property owners of the identified receptor locations. These property owners have already been contacted by the TCEQ. EnSafe provided the water well property owner information in an email dated March 24, 2006.

This *Drinking Water Survey Report* has been written to satisfy TCEQ's request, and identifies and evaluates drinking water wells which may be affected or potentially affected by affected groundwater surrounding the former Delfasco Forge Facility. The *Preparation of a Drinking Water Survey Report*, provided by TCEQ (Appendix B), was strictly followed and the required information is contained in this report.



- State Registered Water Well
- 1/4 and 1/2 Mile Search Radii
- Ⓜ Private Water Well Confirmed
- Property with Reported Water Well
- ▭ PCLE Zone (TCE 5 ppb)
- ▭ Proposed MSD Boundary
- Stream
- Surface Water Body

ENSAFE

FIGURE 1.1 - RECEPTOR SURVEY MAP
FORMER DELFASCO FORGE FACILITY
114 N.E. 28TH STREET
GRAND PRAIRIE, TEXAS

BY: ABARTOS

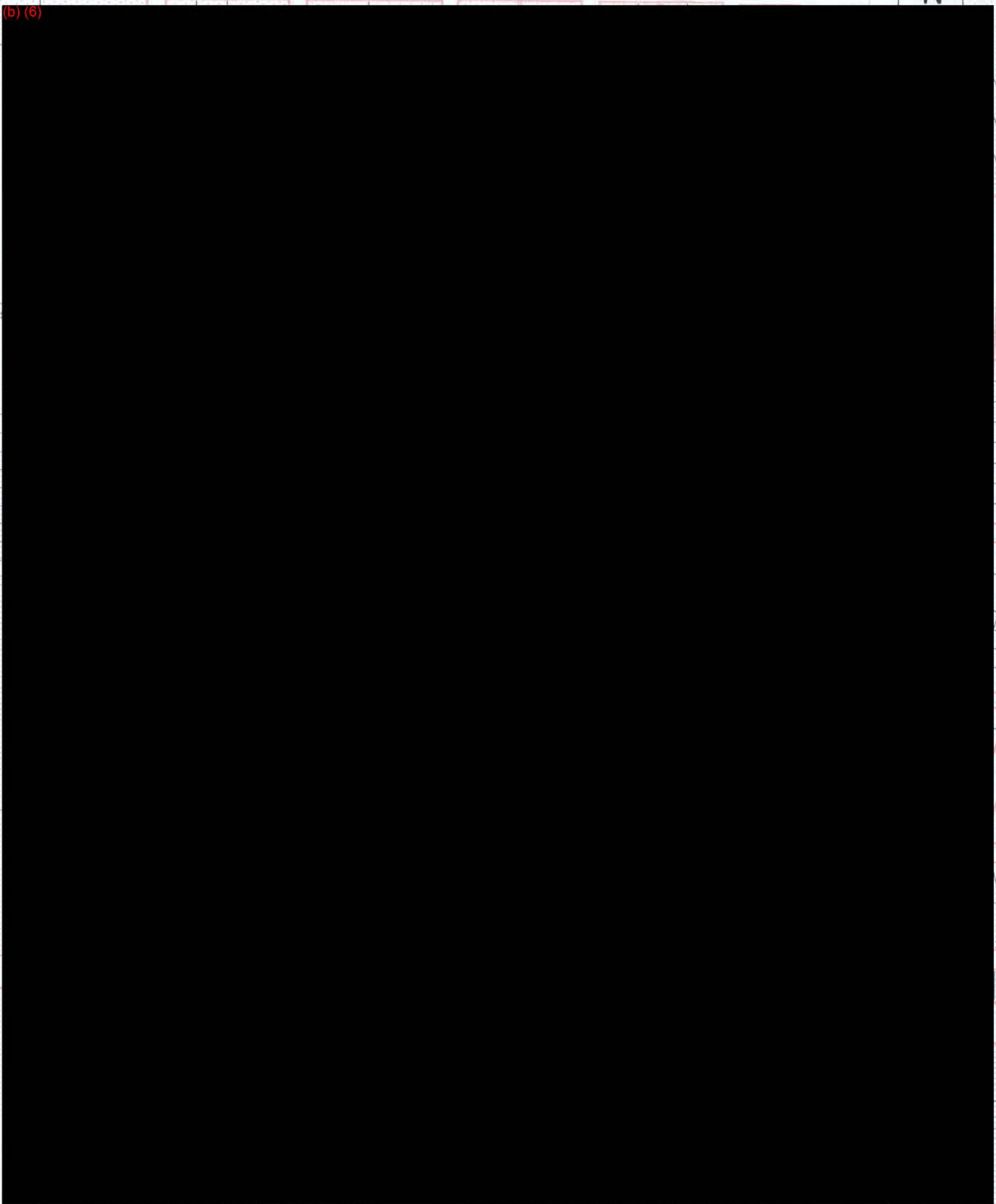
DWG NAME: AFFPROPMAP







DATE: 8/04/2006


000000000001321


N

(b) (6)







-  Monitor Wells Installed in May 2006
-  Private Water Wells
-  Temporary Monitor Well
-  Monitor Well
-  State Registered Water Well
-  Proposed MSD Boundary

 Delfasco Forge Property Boundary

 PCLE Zone

2006 TCE Concentration Contours

-  1 to 10 ppb
-  20 to 100 ppb
-  200 to 1000 ppb
-  2000 to 10,000 ppb

400 0 400 800 Feet



FIGURE 1.2 - TCE PCLE ZONE MAP
FORMER DELFASCO FORGE FACILITY
114 N.E. 28TH STREET
GRAND PRAIRIE, TEXAS

BY: A. BARTOS

DATE: 8/01/2006

DWG: Fig 2 - MSD BNDRY

00000000001322

(b) (6)

- Proposed MSD Boundary
- PCLE Zone
- Monitor Well
- Private Water Well
- Monitor Wells installed in 2006
- Affected Property

300 0 300 600 Feet

ENSAFE

FIGURE 1.3 - AFFECTED PROPERTY MAP
FORMER DELFASCO FORGE FACILITY
114 N.E. 28TH STREET
GRAND PRAIRIE, TEXAS

BY: ABARTOS

DWG NAME: AFFPROP MAP

DATE: 8/04/2006

000000000001323

2.0 SITE AND VICINITY CHARACTERISTICS

2.1 Location and Setting

The former Delfasco Forge facility is located at 114 Northeast 28th Street, Grand Prairie, Dallas County, Texas (32.7503 north latitude, 96.9629 west longitude). The 1.1-acre facility is located in a commercial/industrial area, with nearby residential properties to the north, east and west.

According to a Phase I Environmental Site Assessment (ESA) conducted by Environmental Consultant Services, in May 2001, the facility was first developed in the 1950s and operated as a steel forge. Delfasco acquired the property in 1980 and continued forge operations during their tenure at the facility. In 1998, Delfasco vacated the facility and all onsite operations ceased at that time.

2.2 Investigation Area

As required by the *Preparations of a Drinking Water Survey Report*, a local drinking water source search and a water well search were conducted in the boundary of the affected groundwater plume and within 0.25-miles and 0.5-miles of the outer edge of the plume, respectively. The estimated aerial extent of the groundwater plume, determined by subsurface investigation results gathered to date, and search radii are illustrated on the Receptor Survey Map (see Figure 1.2).

2.3 Topographical and Geological Information

Topographical information for the site and area was obtained from a review of the USGS 7.5-minute series topographical map, Irving, Texas quadrangle (1978, revised 1981, Figure 2.1). Geological information was obtained from the Bureau of Economic Geology (*Geologic Atlas of Texas, Dallas Sheet, 1972*). Additional soil information was obtained from the United States Department of Agriculture (USDA) Soil Conservation Service *Soil Survey of Dallas County, 1975*.

Topography:

The site is generally flat and gently slopes to the southeast. The site is approximately 495 feet above mean sea level (amsl) and is approximately one mile north of Mountain Creek Lake.

Geological Information:

The soils in the area are of the Houston Black-Urban Land Complex. The Houston Black-Urban Land Complex is a gray to dark gray, deep, moderately well-drained clayey soil found on nearly level and gently sloping ground. These soils overlie the Quaternary fluvial terrace deposits of the Trinity River which consist of mixed gravel, sand, silt, and clay. The Trinity River terrace deposits are underlain by the Eagle Ford Shale Formation, which has been encountered at depths ranging from 27 to 73 feet bgs by EnSafe, with an average depth of 47 feet bgs. The Eagle Ford is a gray to dark gray calcareous shale unit of the Eagle Ford Group. Although the Eagle Ford Shale is reported to be 200 to 300 ft thick (Geologic Atlas of Texas, Dallas Sheet) in this area, the well driller report from the nearby City of Grand Prairie water well indicates that it is approximately 145 feet thick. The Eagle Ford Shale is a low permeability formation that forms an aquitard between the Quaternary terrace deposits and underlying sources of drinking water.

(b) (6)

2400 0 2400 4800 Feet



Figure 2.1
USGS Topographic Map
Former Delfasco Forge Facility
114 NE 28th Street
Grand Prairie, Texas

3.0 GROUNDWATER CONTAMINATION

3.1 Area Groundwater

Area groundwater is located in a shallow unconfined silty sand aquifer with maximum depths below ground surface (bgs) of approximately 75 feet. The contaminants of concern in the area are Trichloroethylene (TCE) and its daughter products, including total 1,2-Dichloroethylene; cis-1,2-Dichloroethylene; 1,1-Dichloroethylene; 1,1,2-Trichloroethane; Tetrachloroethylene; and Vinyl chloride. Based on analytical results, local hydrogeology, and the chemical and physical characteristics of TCE, the groundwater plume has an aerial extent of approximately 65 acres and is migrating in a generally east-northeast direction from the site. Analytical results from all monitoring and private wells within the groundwater plume are listed in Table 3-2.

3.2 Private Wells

In August 2004, EnSafe confirmed through door-to-door surveys or by telephone the existence and location of three private wells within the groundwater plume (PW01, PW02, and PW03). In March 2006, EnSafe confirmed through a second door-to-door survey and by telephone the existence and location of eight private wells and one City of Grand Prairie well within 0.25-mile radius of the groundwater plume (PW04, PW05, PW07, PW08, PW09, PW10, PW14, PW15, and PW17). Five additional wells were reported to exist, but could not be confirmed by EnSafe (PW06, PW11, PW12, PW13, and PW16). The Receptor Survey Map (Figure 1.1) shows the location of all water wells within the groundwater plume and 0.25-miles of the plume boundary. Water wells located within this area are also listed in Table 3-3.

3.3 Investigation Phase

Ongoing subsurface investigation activities are being conducted in the vicinity of the former Delfasco Forge facility. Twenty-five (25) permanent groundwater monitoring wells and eight (8) temporary monitor wells have been installed to date. The array of monitor wells defines the aerial extent of affected groundwater surrounding the former Delfasco Forge facility as illustrated in detail in Figure 1.2.

Tab
Affected Property Table
Former Deffasco Forge Facility - 114 NE 28th Street - Grand Prairie, Texas
August 2006

Property Number	Property Address	Residential/ Commercial	Taxpayer Name	Mailing Address	City	State	Zip Code	Business Name	Foundation Type	Special Zoning	Telephone	Water Well Status
(b) (6)	(b) (6)	ST	R	(b) (6)	GRAND PRAIRIE	TX	750504308		PB		(b) (6)	
		ST	R		GRAND PRAIRIE	TX	750504309		SL			
		ST	R		GRAND PRAIRIE	TX	750504308		PB			
		ST	R		GRAND PRAIRIE	TX	750504309		SL			
		ST	R		GRAND PRAIRIE	TX	750504308		PB			
		ST	R		GRAND PRAIRIE	TX	750504744		BL			
		ST	R		GRAND PRAIRIE	TX	750504308		PB			
		ST	R		CARROLLTON	TX	75010-4900		BL			
		ST	R		GRAND PRAIRIE	TX	750504308		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4307		SL			
		ST	R		DALLAS	TX	752223585		SL			
												No answer to telephone calls placed on 8/23 & 8/24. Site visit on 8/25 with no answer note left on door 8/25/04. Site visit on 8/26/04 with no answer.
		ST	R		GRAND PRAIRIE	TX	750504306		PB			
		ST	R		GRAND PRAIRIE	TX	750504307		SL			
		ST	R		PHOENIX	AZ	850426311		PT			
		ST	R		GRAND PRAIRIE	TX	750512413		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4307		SL			
		ST	R		GRAND PRAIRIE	TX	750505510		PT			
		ST	R		GRAND PRAIRIE	TX	750504307		SL			
		ST	R		GRAND PRAIRIE	TX	750504306		PB			
		ST	R		GRAND PRAIRIE	TX	750504307		PB			
		ST	R		GRAND PRAIRIE	TX	750504716		PB			
		ST	R		SANTA ANA	CA	92705-4534		PB			
		ST	R		GRAND PRAIRIE	TX	750504717		PB			
		ST	R		GRAND PRAIRIE	TX	750504716		PB			
		ST	R		GRAND PRAIRIE	TX	750542095		SL			
		ST	R		GRAND PRAIRIE	TX	750504716		BL			
		ST	R		GRAND PRAIRIE	TX	750504717		PB			
		ST	R		GRAND PRAIRIE	TX	750504716		PB			
		ST	R		GRAND PRAIRIE	TX	750504717		PB			
		ST	R		GRAND PRAIRIE	TX	750504716		PB			
		ST	R		GRAND PRAIRIE	TX	750504717		PB			
		ST	R		GRAND PRAIRIE	TX	750504714		BL			
		ST	R		GRAND PRAIRIE	TX	750504715		PB			
		ST	R		GRAND PRAIRIE	TX	750504714		PB			
		ST	R		GRAND PRAIRIE	TX	750525806		PB			
		ST	R		GRAND PRAIRIE	TX	750504535					
		ST	R		GRAND PRAIRIE	TX	75050-4715		PB			
												Left message 8/23 & 8/24. Mr. (b) (6) returned the call evening of 8/24 and indicated that his wife had spoken to the City of G.P. and mistakenly told them they had a well. He indicated that there was no well on their property.
		ST	R		GRAND PRAIRIE	TX	750504714		PT			
		ST	R		GRAND PRAIRIE	TX	75050-4715		PB			
		ST	R		GRAND PRAIRIE	TX	750504714		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4305		PB			
												Door visit necessary on 8/25/04. Note left on door on 8/25/04. Met with (b) (6) on 8/26/04 and she indicated that she had told the City of G.P. the well was filled in when they purchased the home ~30 years ago. No well currently exists onsite.
		ST	R		GRAND PRAIRIE	TX	750504714		PT			
		ST	R		GRANBURY	TX	760494323		PB			
		ST	R		GRAND PRAIRIE	TX	750504712		PB			
												Schedule to sample 8/25/04 @ 1000. Well was dry @ 23 bgs on 8/25/04. Well ID PW01. No sample taken.
		ST	R		GRAND PRAIRIE	TX	750502217		PB			
		ST	R		GRAND PRAIRIE	TX	750502252		PB			
		ST	R		GRAND PRAIRIE	TX	750504713		PB			
												Sample 8/25/04 @ 1100. Owner reported the well is likely dry. Sampled for VOCs on 8/24. Sample ID DELGPW0201. Well TP = 28.35. DTW = 24.34.
		ST	R		KELLER	TX	76248		BL			
		ST	R		GRAND PRAIRIE	TX	75050-4713		PB			
		ST	R		GRAND PRAIRIE	TX	750504716		SL			
		ST	R		GRAND PRAIRIE	TX	750504713		PB			
		ST	R		GRAND PRAIRIE	TX	750504716		PT			
		ST	R		GRAND PRAIRIE	TX	750504713	KEYSTONE CIRCUIT				
		ST	R		GRAND PRAIRIE	TX	750504324		PB			
		ST	R		GRAND PRAIRIE	TX	750504324		SL			
		ST	R		GRAND PRAIRIE	TX	750504324		PB			
		ST	R		GRAND PRAIRIE	TX	750504324		PB			
		ST	R		GRAND PRAIRIE	TX	750504324		PB			

00000000001328

Table 3 1
Affected Property Table
Former Dallas Forge Facility 114 NE 28th Street - Grand Prairie Texas
August 2005

Property Number	Property Address	Residential/ Commercial	Taxpayer Name	Mailing Address	City	State	Zip Code	Business Name	Foundation Type	Special Zoning	Telephone	Water Well Status
(b) (6)	(b) (6)	ST R	(b) (6)		GRAND PRAIRIE	TX	75050-5510		PB		(b) (6)	
		ST R			GRAND PRAIRIE	TX	75050-6223		PB			
		ST R			GRAND PRAIRIE	TX	750506223		SL			
		ST R			GRAND PRAIRIE	TX	750506223		SL			
		ST R			RVING	TX	750633462					
												(b) (6) reported that City of G P did not contact her but that a water well existed prior to her ownership of the property but had long since been filled and no longer was in existence
		ST R			GRAND PRAIRIE	TX	750506223		PB			
		ST R			GRAND PRAIRIE	TX	750506221		SL			
		ST R			GRAND PRAIRIE	TX	75050-6221		SL			
		ST R			GRAND PRAIRIE	TX	750506221		SL			
		ST R			GRAND PRAIRIE	TX	750506221		PB			
		ST R			GRAND PRAIRIE	TX	750506221					
		ST R			GRAND PRAIRIE	TX	750505510		SL			
		ST R			VILMINGTON	DE	198500527	VACANT				
		BLVD R			GRAND PRAIRIE	TX	75050-4746		BL			
		BLVD R			GRAND PRAIRIE	TX	750504746		PB			
		BLVD R			GRAND PRAIRIE	TX	750504746		PB			
		BLVD R			GRAND PRAIRIE	TX	750504743					
		BLVD C			GRAND PRAIRIE	TX	750504743		PB			
		BLVD R			GRAND PRAIRIE	TX	75050-4744		BL			
		BLVD R			GRAND PRAIRIE	TX	750504743		SL			
		BLVD R			GRAND PRAIRIE	TX	750504744		BL			
		BLVD R			GRAND PRAIRIE	TX	750504530		PB			
		BLVD R			GRAND PRAIRIE	TX	750504744		SL			
		BLVD R			GRAND PRAIRIE	TX	75050-		PB			
		BLVD R			GRAND PRAIRIE	TX	750504743		SL			
		BLVD R			GRAND PRAIRIE	TX	75050-4744		PB			
		BLVD R			GRAND PRAIRIE	TX	750530223		BL			
		BLVD R			GRAND PRAIRIE	TX	750514162		PB			
		BLVD R			GRAND PRAIRIE	TX	750504741		BL			
		BLVD R			GRAND PRAIRIE	TX	750504741		PB			
		BLVD R			RVING	TX	75061-8602		PB			
		BLVD R			GRAND PRAIRIE	TX	750504742		SL			
		BLVD R			GRAND PRAIRIE	TX	750535143		BL			
		BLVD R			GRAND PRAIRIE	TX	750504741		PB			
		BLVD R			GRAND PRAIRIE	TX	750504741		BL			
		BLVD R			GRAND PRAIRIE	TX	750535143		PB			
		BLVD R			GRAND PRAIRIE	TX	75050-4741		PB			
		BLVD R			GRAND PRAIRIE	TX	750535143		BL			
		BLVD R			GRAND PRAIRIE	TX	750504741		BL			
		BLVD R			GRAND PRAIRIE	TX	750504742		PB			
		BLVD R			GRAND PRAIRIE	TX	750503749		BL			
		BLVD R			GRAND PRAIRIE	TX	750504739		PB			
		BLVD R			GRAND PRAIRIE	TX	750535143		PB			
		BLVD R			GRAND PRAIRIE	TX	750503749					
		BLVD R			GRAND PRAIRIE	TX	750535143		PB			
		BLVD R			GRAND PRAIRIE	TX	750535143		SL			
		BLVD R			GRAND PRAIRIE	TX	750504739		PB			
		BLVD R			GRAND PRAIRIE	TX	750535143		PB			
		BLVD R			GRAND PRAIRIE	TX	750535143		BL			
		BLVD C			GRAND PRAIRIE	TX	750504739	200 MEYERS		C		
		BLVD R			GRAND PRAIRIE	TX	750535143		PB			
		BLVD R			GRAND PRAIRIE	TX	750535143		BL			
		BLVD R			GRAND PRAIRIE	TX	750535143		PB			
		BLVD R			GRAND PRAIRIE	TX	750535143		PB			
		BLVD R			GRAND PRAIRIE	TX	75050-4751		PB			
		BLVD C			GRAND PRAIRIE	TX	75050-4732	VACANT		C		
		ST C			GRAND PRAIRIE	TX	750504727	CHURCH		SF-4		
		ST R			GRAND PRAIRIE	TX	75050-4724		PB			
		ST C			GRAND PRAIRIE	TX	750504725		SL			
		ST R			GRAND PRAIRIE	TX	75050-4724		PB			
		ST R			EDAR HILL	TX	751044537		PB			
		ST R			GRAND PRAIRIE	TX	750504724		SL			
		ST R			GRAND PRAIRIE	TX	75050-4725		PB			
		ST C			GRAND PRAIRIE	TX	750504725	BOWLES MEMORIAL CHURCH		SF-4		
		ST R			GRAND PRAIRIE	TX	750504724		BL			
		ST C			GRAND PRAIRIE	TX	750504725	BOWLES MEMORIAL BAPT		SF-4		
		ST C			GRAND PRAIRIE	TX	750504725	PARKING LOT		SF-4		
		ST R			GRAND PRAIRIE	TX	750504722		PB			
		ST R			GRAND PRAIRIE	TX	750504722		PB			
		ST R			GRAND PRAIRIE	TX	750504723		PB			
		ST R			ULESS	TX	76039-		BL			
		ST R			GRAND PRAIRIE	TX	750504722		PB			
		ST R			GRAND PRAIRIE	TX	750504723		PB			
		ST R			GRAND PRAIRIE	TX	750504722		PB			
		ST R			GRAND PRAIRIE	TX	750504722		PB			
		ST R			JALLAS	TX	752291331		BL			
		ST R			GRAND PRAIRIE	TX	75050-4720		PB			

0000000001329

Table 3.1
Affected Property Table
Former Deffasco Forge Facility - 114 NE 28th Street - Grand Prairie Texas
August 2006

Property Number	Property Address	Residential/ Commercial	Taxpayer Name	Mailing Address	City	State	Zip Code	Business Name	Foundation Type	Special Zoning	Telephone	Water Well Status
(b) (6)	(b) (6)		(b) (6)								(b) (6)	Scheduled to sample 8/25/04 @ 0900 Well was dry at 26 7' bgs on 8/25/04 Well ID PW03 No sample was taken
		ST	R		GRAND PRAIRIE	TX	750504723		FR			
		ST	R		GRAND PRAIRIE	TX	750504720		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4435		PB			
		ST	R		GRAND PRAIRIE	TX	750505510		PB			
		ST	R		GRAND PRAIRIE	TX	750504721		BL			
		ST	R		GRAND PRAIRIE	TX	75050-4720		PB			
		ST	R		GRAND PRAIRIE	TX	750504739		PB			
		ST	R		FAIRFAX	VA	220312833		PB			
		ST	R		GRAND PRAIRIE	TX	750504739		PB			
		ST	R		GRAND PRAIRIE	TX	750504720		PB			
		ST	R		GRAND PRAIRIE	TX	750504739		PB			
		ST	R		GRAND PRAIRIE	TX	750504718		PB			
		ST	R		GRAND PRAIRIE	TX	750504739		PB			
		ST	R		DALLAS	TX	752201811					
		ST	R		GRAND PRAIRIE	TX	750504739					
		ST	R		GRAND PRAIRIE	TX	750504757		BL			
		ST	R		MILWAUKEE	WI	53201-3155		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4705		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4706		PB			
		ST	R		GRAND PRAIRIE	TX	750504705		BL			
		ST	R		GRAND PRAIRIE	TX	750504706		PB			
		ST	R		IRVING	TX	750616402		PB			
		ST	R		GRAND PRAIRIE	TX	750522302		PB			
		ST	C		GRAND PRAIRIE	TX	750504725	VACANT		SF-4		
		ST	R		GRAND PRAIRIE	TX	750504704		PB			
		ST	R		GRAND PRAIRIE	TX	750504704		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4703		PB			
		ST	R		GRAND PRAIRIE	TX	750504703		PB			
		ST	R		GRAND PRAIRIE	TX	750504704		SL			
		ST	R		GRAND PRAIRIE	TX	75050-4704		PB			
		ST	R		GRAND PRAIRIE	TX	750504703		PB			
		ST	R		GRAND PRAIRIE	TX	750504704		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4703		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4429		PB			
		ST	R		CHANDLER	TX	757589664		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4702		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4701		PB			
		ST	R		GRAND PRAIRIE	TX	750505856		PB			
		ST	R		GRAND PRAIRIE	TX	750504702		PB			
		ST	R		GRAND PRAIRIE	TX	750504702		PB			
		ST	R		GRAND PRAIRIE	TX	750504702		PB			
		ST	R		GRAND PRAIRIE	TX	750504702		PB			
		ST	R		GRAND PRAIRIE	TX	750504511		PB			
		ST	R		GRAND PRAIRIE	TX	750504511		PB			
		ST	R		GRAND PRAIRIE	TX	750502204		PB			
		ST	R		GRAND PRAIRIE	TX	750504511		PB			
		ST	R		IRVING	TX	750603847		PB			
		ST	R						SL			
		ST	R		GRAND PRAIRIE	TX	750540459		PB			
		ST	R		GRAND PRAIRIE	TX	75050-4540		PB			
		ST	R		GRAND PRAIRIE	TX	750504540		PB			
		ST	R		GRAND PRAIRIE	TX	750504544		SL			
		ST	R		GRAND PRAIRIE	TX	750504544		SL			
		ST	R		GRAND PRAIRIE	TX	750504544		BL			
		ST	R		IRVING	TX	750606909		BL			
		ST	R		GRAND PRAIRIE	TX	75050-4545		PB			
		ST	R		GRAND PRAIRIE	TX	750504545		PB			
		ST	R		GRAND PRAIRIE	TX	750504545		PB			
		ST	R		GRAND PRAIRIE	TX	750504716					
		ST	R		GRAND PRAIRIE	TX	750504545		PB			
		ST	R		GRAND PRAIRIE	TX	750504545		PB			
		ST	C		GRAND PRAIRIE	TX	750504757	PHILIP SPECIALTY COMPANY		C		
		ST	C		GRAND PRAIRIE	TX	750507103	MP AUTO		C		
		ST	C		DALLAS	TX	752241439	QUEST AUTO SALES		C		
		ST	C		GRAND PRAIRIE	TX	750506215	BJ S UPHOLSTERY		C		
		ST	C		SALINAS	CA	93907-1228	AUSTIN AUTO BODY SALES		C		
		ST	C		MIDLOTHIAN	TX	760656183	PFL		C		
		ST	C		MIDLOTHIAN	TX	760656183	VACANT		C		
		ST	C		GRAND PRAIRIE	TX	750504732	T AND T AUTO		C		
		ST	D		GRAND PRAIRIE	TX	75050-4757	PHILIP SPECIALTY		D		
		ST	C		GRAND PRAIRIE	TX	750504732	VACANT		C		
		ST	C		DALLAS	TX	752184312	VACANT		C		
		ST	C		DALLAS	TX	752184312	VACANT		C		

Foundation Type PB Per and Beam SL - Concrete Slab BL Block PT - Post
Special Zoning C Commercial SF4 Single Family Dwelling

000000000001330

Table 3.2 Analytical Data Table
Groundwater Data Summary Table (ug/L)
Former Delfasco Forge, Grand Prairie, Texas
VCP # 1571

SAMPLE LOCATION SAMPLE ID SAMPLE DATE	MW-1		MW-2		MW-3		MW-4			MW-5		MW-6		MW-6A	MW-7		MW-8		MW-9
	DELWMW0101	DELGMW0102	DELWMW0201	DELGMW0202	DELWMW0301	DELGMW0302	DELWMW0401	DELHMMW0401	DELGMW0402	DELWMW0501	DELGMW0502	DELGME0601	DELGMW0602	DELGMW0601	DELGMW0701	DELGMW0702	DELGMW0801	DELGMW0802	DELGMW0901
	25-Sep-03	21-Nov-05	25-Sep-03	21-Nov-05	25-Sep-03	22-Nov-05	25-Sep-03	25-Sep-03	22-Nov-05	25-Sep-03	21-Nov-05	17-Nov-04	23-Nov-05	2-Nov-04	2-Nov-04	21-Nov-05	2-Nov-04	22-Nov-05	23-Nov-05
VOA																			
1,1,2-Trichloroethane	(0.333)	(0.37)	(0.333)	(0.37)	(33.3)	2.3	(3.33)	(3.33)	(0.37)	(16.7)	(9.3)	(0.22)	(0.37)	(0.22)	(0.22)	(0.37)	(0.22)	(0.37)	(0.37)
1,1-Dichloroethane	(0.122)	(0.56)	(0.122)	(0.56)	(12.2)	4.2	(1.22)	(1.22)	(5.6)	(6.1)	(14)	(0.36)	(0.56)	(0.36)	(0.36)	(0.56)	(0.36)	(0.56)	(0.56)
1,1-Dichloroethene	(0.357)	(0.93)	(0.357)	(0.93)	(35.7)	(93)	(3.57)	(3.57)	(9.3)	(17.9)	(23)	(0.36)	(0.93)	(0.36)	(0.36)	(0.93)	(0.36)	(0.93)	(1.9)
1,2-Dichloroethane	(0.28)	(0.28)	(0.28)	(0.28)	(27.70)	(0.28)	(2.77)	(2.77)	(0.28)	(5.80)	(0.28)	(0.26)	(0.28)	(0.26)	(0.26)	(0.28)	(0.26)	(0.28)	(0.28)
1,2-Dichloroethene (Tot)	(0.343)	NS	24.7	NS	302	NS	1400	120	NS	187	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	(0.641)	(0.72)	(0.641)	(0.72)	(64.1)	13000	(6.41)	(6.41)	(0.72)	(32.1)	(0.72)	(1.3)	(0.72)	(1.3)	(1.3)	(0.72)	(1.3)	14	(0.72)
4-Methyl-2-pentanone	NS	(0.45)	NS	(0.45)	NS	86	NS	NS	(0.45)	NS	(0.45)	(0.65)	(0.45)	(0.65)	(0.65)	(0.45)	(0.65)	(0.45)	(0.9)
Acetone	(2.36)	(7.3)	(2.36)	(7.3)	(236)	(730)	(23.6)	(23.6)	(73)	(118)	(7.3)	(5)	(7.3)	(5)	(5)	(7.3)	(5)	(7.3)	(7.3)
Benzene	(0.1)	(0.54)	(0.1)	(0.54)	(10)	4.4	(1)	(1)	1.6	(5)	(0.54)	(0.36)	(0.54)	(0.36)	(0.36)	(0.54)	(0.36)	(0.54)	(1.1)
Bromoform	(0.14)	(0.36)	(0.14)	(0.36)	(14.00)	(0.36)	(1.40)	(1.40)	(0.36)	(7.00)	(0.36)	(0.33)	(0.36)	(0.33)	(0.33)	(0.36)	(0.33)	(0.36)	(0.36)
Carbon disulfide	(0.18)	1.2	(0.18)	(0.75)	(18)	(75)	(1.8)	(1.8)	(7.5)	(9)	(19)	(0.66)	(0.75)	(0.66)	(0.66)	(0.75)	(0.66)	(0.75)	(0.75)
Chloroform	(0.14)	(0.52)	(1.48)	(0.52)	(105)	(52)	(10.2)	(11)	(0.52)	(62.8)	(13)	(0.37)	(0.52)	(0.37)	(0.37)	(0.52)	(0.37)	(0.52)	(0.52)
cis-1,2-Dichloroethene	(0.151)	8.1	24.7	0.83	307	950	1400	120	1400	187	210	(0.38)	(0.55)	(0.38)	(0.38)	(0.55)	(0.38)	(0.55)	5
Ethylbenzene	(0.312)	(0.62)	(0.312)	(0.62)	(31.2)	(0.62)	(3.12)	(3.12)	(0.62)	(15.6)	(0.62)	(0.34)	(0.62)	(0.34)	(0.34)	(0.62)	(0.34)	(0.62)	(0.62)
Methylene chloride	(2.65)	(0.44)	(2.97)	(0.44)	(184)	(44)	(23.2)	(26.3)	(0.44)	(30.7)	(0.44)	(0.64)	(0.44)	(0.64)	(0.64)	(0.44)	(0.64)	(0.44)	(0.44)
tert-Butyl methyl ether	(0.122)	NS	(0.122)	NS	(12.2)	NS	(1.22)	(1.22)	NS	(6.1)	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	(0.269)	(0.75)	(0.269)	(0.75)	(26.9)	23	(2.69)	(2.69)	(7.5)	5.3	34	0.43	(0.75)	0.59	(0.35)	(0.75)	(0.35)	(0.75)	3.8
Toluene	(0.152)	(0.62)	(0.152)	(0.62)	(15.2)	0.63	(1.52)	(1.52)	(0.62)	(7.6)	(16)	(0.54)	(0.62)	(0.54)	(0.54)	(0.62)	(0.54)	(0.62)	(0.62)
trans-1,2-Dichloroethene	(0.192)	(0.8)	(0.192)	(0.8)	(19.2)	(80)	(1.92)	(1.92)	10	(9.6)	(20)	(0.4)	(0.8)	(0.4)	(0.4)	(0.8)	(0.4)	(0.8)	(1.6)
Trichloroethene	4.25	16	63	2.7	6670	8800	756	114	35	770	2300	(0.37)	(0.71)	100	(0.37)	2.2	0.93	73	240
Vinyl chloride	(0.177)	(0.92)	(0.177)	(0.92)	(17.7)	62	(1.77)	(1.77)	69	(8.85)	(23)	(0.56)	(0.92)	(0.56)	(0.56)	(0.92)	(0.56)	(0.92)	(1.8)
TPH																			
TPH-C6-C12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
TPH- Total C6-C35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

SAMPLE LOCATION SAMPLE ID SAMPLE DATE	MW-10	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20		MW-21	MW-22	MW-23	MW-24	MW-25
	DELGMW1001	DELGMW1201	DELGMW1301	DELGMW1401	DELGMW1501	DELGMW1601	DELGMW1701	DELGMW1801	DELGMW1901	DELGMW2001	DELHMMW2001	DELGMW2101	DELGMW2201	DELGMW2301	DELGMW2401	DELGMW2501
	22-Nov-05	21-Nov-05	23-Nov-05	23-Nov-05	23-Nov-05	23-Nov-05	25-May-06	25-May-06	25-May-06	25-May-06	25-May-06	25-May-06	15-Jun-06	21-Mar-06	25-May-06	25-May-06
VOA																
1,1,2-Trichloroethane	(0.37)	(9.3)	(0.37)	(0.37)	(0.37)	(0.37)	(0.37)	(0.37)	(0.37)	(0.37)	(0.37)	(0.37)	(0.37)	(0.37)	(0.37)	(0.37)
1,1-Dichloroethane	(0.56)	(0.56)	(0.56)	(0.56)	(0.56)	1.2	(0.56)	(0.56)	(0.56)	(0.56)	(0.56)	(0.56)	(0.56)	(0.56)	(0.56)	(0.56)
1,1-Dichloroethene	(0.93)	72	(0.93)	(0.93)	(0.93)	(0.93)	(0.93)	(0.93)	(0.93)	(0.93)	(0.93)	(0.93)	(0.93)	(0.93)	(0.93)	(0.93)
1,2-Dichloroethane	(0.28)	(0.28)	(0.28)	(0.28)	(0.28)	(0.28)	(0.28)	2.10	(0.28)	(0.28)	(0.28)	(0.28)	(0.28)	(0.28)	(0.28)	(0.28)
1,2-Dichloroethene (Tot)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)	(0.72)
4-Methyl-2-pentanone	(0.45)	(11)	(0.45)	(0.45)	(0.45)	(0.45)	(0.45)	(0.45)	(0.45)	(0.45)	(0.45)	(0.45)	(0.45)	(0.45)	(0.45)	(0.45)
Acetone	(7.3)	(180)	(7.3)	(7.3)	(7.3)	(7.3)	(7.30)	(7.30)	(7.30)	(7.30)	(7.30)	(7.30)	(7.30)	(7.30)	(7.30)	(7.30)
Benzene	(0.54)	(14)	(0.54)	(0.54)	(0.54)	(0.54)	(0.54)	(0.54)	(0.54)	(0.54)	(0.54)	(0.54)	(0.54)	(0.54)	(0.54)	(0.54)
Bromoform	(0.36)	(0.36)	(0.36)	(0.36)	(0.36)	(0.36)	(0.36)	(0.36)	(0.36)	(0.36)	(0.36)	0.59	0.59	(0.36)	(0.36)	(0.36)
Carbon disulfide	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)
Chloroform	(0.52)	(13)	(0.52)	(0.52)	(0.52)	(0.52)	(0.52)	(0.52)	(0.52)	(0.52)	(0.52)	(0.52)	(0.52)	(0.52)	(0.52)	(0.52)
cis-1,2-Dichloroethene	1.1	17	(0.55)	(0.55)	(0.55)	3.3	(0.55)	(0.55)	(0.55)	(0.55)	(0.55)	(0.55)	(0.55)	(0.55)	(0.55)	(0.55)
Ethylbenzene	(0.62)	(16)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)
Methylene chloride	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)	(0.44)
tert-Butyl methyl ether	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	(0.75)	2.5	(0.75)	(0.75)	(0.75)	0.92	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	1.20	(0.75)	(0.75)	(0.75)	(0.75)
Toluene	(0.62)	(16)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)	(0.62)
trans-1,2-Dichloroethene	(0.8)	(0.8)	(0.8)	(0.8)	(0.8)	(0.8)	(0.80)	(0.80)	(0.80)	(0.80)	(0.80)	(0.80)	(0.80)	(0.80)	(0.80)	(0.80)
Trichloroethene	61	1000	(0.71)	57	(0.71)	0.89	(0.71)	(0.71)	(0.71)	2.40	2.50	(0.71)	(0.71)	1600	4.30	50
Vinyl chloride	(0.92)	(23)	(0.92)	(0.92)	(0.92)	(0.92)	(0.92)	(0.92)	(0.92)	(0.92)	(0.92)	(0.92)	(0.92)	(0.92)	(0.92)	(0.92)
TPH																
TPH-C6-C12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
TPH- Total C6-C35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES:

1 - Numbers in parentheses indicate the quantification limits, not the detection limits. If the analyte concentration is in parentheses, the analyte was not detected in the sample.

2 - "NS" means the sample was not tested for that analyte.

3 - "NA" means Not Applicable.

4 - "R" indicates a result rejected in data validation.

5 - Shaded values indicate detections exceeding the lower of the Industrial/Commercial Tier 1 PCLs.

6 - Bolded values indicate detections exceeding the lower of the Residential Tier 1 PCLs.

Groundwater Data Summary Table (ug/L)
Former Del Fasco Forge, Grand Prairie, Texas
VCP # 1571

SAMPLE LOCATION	PW-2	SB-3	SB-4	SB-6	SB-7A	SB-8A	SB-9A	SB-10	SB-11	TIER 1 PCLs		TIER 1 PCLs	
SAMPLE ID	DELGPW0201	DELGSB0301	DELGSB0401	DELGSB0601	DELGSB7A01	DELGSB8A01	DELGSB9A01	DELGSB1001	DELGSB1101	I/C ^{GW} GW _{Ind}	I/C ^{AW} GW _{Ind-V}	R ^{GW} GW _{Ind}	R ^{AW} GW _{Ind-V}
SAMPLE DATE	25-Sep-04	4-Sep-02	4-Sep-02	25-Mar-04	6-Apr-04	6-Apr-04	6-Apr-04	26-Mar-04	14-May-04	—	0.5 acre	—	0.5 acre
VOA													
1,1,2-Trichloroethane	(0.22)	10	0.16	(0.333)	(0.131)	(0.655)	(0.131)	(0.333)	(32.8)	5	134,475	5	80,044
1,1-Dichloroethane	(0.36)	38	(1)	(0.122)	(0.252)	(1.26)	(0.252)	(0.122)	(63)	7,300	10,044,267	2,444	7,174,477
1,1-Dichloroethene	0.37	893	1.5	(0.357)	(0.229)	(1.15)	(0.229)	(0.357)	(57.3)	7	1,371,983	7	979,988
1,2-Dichloroethane	(0.26)	(50)	(1)	(0.122)	(0.205)	(1.030)	(0.205)	(0.122)	(51.3)	5.00	55,000	5	33,000
1,2-Dichloroethene (Tot)	NS	NS	NS	8.55	(0.302)	(1.51)	(0.302)	1.23	1020	70	22,700,000	70	16,200,000
2-Butanone (MEK)	(1.3)	(500)	(10)	(0.641)	(0.429)	(2.15)	(0.429)	3.75	(107)	43,800	1,000,000,000	14,665	1,000,000,000
4-Methyl-2-pentanone	(0.65)	(500)	(10)	NS	NS	NS	NS	NS	NS	5,840	942,637,279	1,955	673,312,342
Acetone	(5)	(1200)	(25)	(1.42)	(1.42)	(7.1)	(1.42)	(1.42)	(355)	65,700	354,532,668	21,998	253,237,620
Benzene	(0.36)	47	0.22	(0.225)	(0.225)	(1.13)	(0.225)	(0.225)	(56.3)	5	85,238	5	50,737
Bromoform	(0.33)	(50)	(1)	(0.140)	(0.216)	(1.080)	(0.216)	(0.140)	(54.0)	260	8,600,000	120	5,100,000
Carbon disulfide	(0.66)	(50)	(1)	(0.18)	(0.098)	(0.49)	(0.098)	(0.18)	(24.5)	7,300	6,816,255	2,444	4,868,754
Chloroform	(0.37)	11	0.25	(0.14)	(0.194)	(0.97)	(0.194)	(0.14)	(48.5)	730	33,461	244	19,917
cis-1,2-Dichloroethene	0.75	9300	34	8.55	(0.163)	(0.815)	(0.163)	1.23	1150	70	22,737,924	70	16,241,374
Ethylbenzene	(0.34)	(50)	0.21	(0.312)	(0.227)	(1.14)	(0.227)	(0.312)	(56.8)	700	21,908,106	700	15,648,647
Methylene chloride	(0.64)	(250)	0.28	(0.767)	(1.9)	(2.23)	(2.06)	(0.85)	(111)	5	2,136,735	5	1,271,866
tert-Butyl methyl ether	NS	NS	NS	(0.122)	(0.179)	(0.895)	(0.179)	36.6	(44.8)	730	6,785,229	244	4,038,827
Tetrachloroethene	(0.35)	270	1	(0.269)	1.15	(1.14)	(0.227)	2.77	(56.8)	5	548,634	5	326,568
Toluene	(0.54)	(50)	0.49	(0.152)	(0.213)	(1.07)	(0.213)	(0.152)	(53.3)	1,000	8,685,476	1,000	6,203,911
trans-1,2-Dichloroethene	(0.4)	38	(1)	(0.192)	(0.139)	(0.695)	(0.139)	(0.192)	(34.8)	100	14,215,840	100	10,154,172
Trichloroethene	19	10000	180	28.9	125	970	(0.27)	175	3500	5	272,769	5	162,362
Vinyl chloride	(0.56)	31	(1)	(0.177)	(0.089)	(0.445)	(0.089)	(0.177)	(22.3)	2	6,108	2	3,635
TPH													
TPH-C6-C12	NS	500	(5000)	NS	NS	NS	NS	NS	NS	2,900	29,535	980	21,096
TPH- Total C6-C35	NS	8000	(5000)	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA

1 - Numbers in parentheses indicate the quantification limits, not the detection limits. If the analyte concentration is in parentheses, 2 - "NS" means the sample was not tested for that analyte. 3 - "NA" means Not Applicable. 4 - Shaded values indicate detections exceeding the lower of the Industrial/Commercial Tier 1 PCLs. 5 - Bolded values indicate detections exceeding the lower of the Residential Tier 1 PCLs.

Table 3.3
Water Well Survey
Aug-06

Map ID Number	State Well ID Number	Approximate distance from known extent of groundwater contamination (feet)	Physical Address of Well	Latitude	Longitude	Well Type	Total Depth (feet)	Screened Interval (feet)	Sealed Interval (feet)	Private Drinking Water Well?	Affected or Potentially Affected?	Well Owner Name, Mailing Address	Well User Name, Mailing Address
(b) (6)	N/A	0	(b) (6)			PRV	23	Unknown	Unknown	Not in use	Yes	(b) (6)	
	N/A	0				PRV	28 35	Unknown	Unknown	Not in use	Yes		
	N/A	0				PRV	26 7	Unknown	Unknown	Not in use	Yes		
	N/A	700				PRV	Unknown	Unknown	Unknown	Not in use	No		
	N/A	800				PRV	30 - 40	Unknown	Unknown	Irrigation	No		
	N/A	1000				PRV	Unknown	Unknown	Unknown	Unknown	No		
	N/A	500				PRV	33 7	Unknown	Unknown	Not in use	No		
	N/A	800				PRV	15 21	Unknown	Unknown	Not in use	No		
	N/A	600				PRV	Unknown	Unknown	Unknown	Not in use	No		
	N/A	1200				PRV	Unknown	Unknown	Unknown	Unknown	No		
	N/A	1200				PRV	Unknown	Unknown	Unknown	Unknown	No		
	N/A	1400				PRV	Unknown	Unknown	Unknown	Unknown	No		
	N/A	1500				PRV	10 59	Unknown	Unknown	Not in use	No		

00000000001333

**Water Well Survey
Aug-06**

Map ID Number	State Well ID Number	Approximate distance from known extent of groundwater contamination (feet)	Physical Address of Well	Latitude	Longitude	Well Type	Total Depth (feet)	Screened Interval (feet)	Sealed Interval (feet)	Private Drinking Water Well?	Affected or Potentially Affected?	Well Owner Name, Mailing Address	Well User Name, Mailing Address
(b) (6)			(b) (6)									(b) (6)	
	N/A	1600				PRV	40 6	Unknown	Unknown	Not in use	No		
	N/A	1600				PRV	Unknown	Unknown	Unknown	Unknown	No		
	N/A	1500				PRV	Unknown	Unknown	Unknown	Not in use	No		
3309702	3309702	1400	NE 31st St and Bowles St	Unknown	Unknown	P	460	Unknown	Unknown	Plugged and Abandoned	No	City of Grand Prairie 218 S Center St Grand Prairie, TX 75051	N/A
3309703	3309703	1200	NE 28th St and Graham St	Unknown	Unknown	P	2163	2006 - 2163	0 - 2006	No	No	City of Grand Prairie 218 S Center St Grand Prairie, TX 75051	City of Grand Prairie population
3317105	3317105	1800	Hensley Field	Unknown	Unknown	P	413	258 - 405	0 - 258	Plugged and Abandoned	No	U S Air Force Hensley Field #1 Grand Prairie, TX 75050	N/A
3317106	3317106	1800	Hensley Field	Unknown	Unknown	P	417	269 - 315	0 - 269, 315 - 417	Plugged and Abandoned	No	U S Air Force Hensley Field #1 Grand Prairie, TX 75050	N/A

0000000001334

4.0 AFFECTED OR POTENTIALLY AFFECTED WATER WELLS

4.1 Local Drinking Water Source and Field Survey of Water Wells

In order to document the availability and use of a PWS for the properties within and surrounding the affected groundwater plume, a PWS search was conducted for areas within the boundary of the affected groundwater plume and within 0.25-miles from the outer edge of the plume.

The local PWS is supplied by the City of Grand Prairie, which supplied EnSafe with a PWS coverage map for the vicinity of the former Delfasco facility. The PWS coverage map can be found in Appendix C. All properties within the boundary of the affected groundwater plume, and within 0.25-miles from the outer edge of the plume, are supplied by the City of Grand Prairie PWS. On the coverage map, all properties supplied by the local PWS are shown in gray and the water meters for each property are indicated by a red dash.

In August 2004, EnSafe, in conjunction with the City of Grand Prairie, conducted a door-to-door survey of private water wells within the estimated extent of the groundwater plume coverage area. Seven properties having private water wells were identified in this survey. Additional investigation activities revealed the extent of the plume to be larger than previously believed. In February 2006, EnSafe conducted a second door-to-door private water well survey of properties within 0.25-miles from the outer edge of the revised plume area, to determine the presence of private wells in the area. Sixteen properties having private water wells were identified in this survey. Properties within the estimated groundwater plume coverage area are listed in Table 3-1. Table 3-1 also includes the sixteen properties identified in the private water well survey.

A records search was conducted to locate all recorded water wells within the TCEQ-prescribed coverage area of 0.5-miles from the outer boundary of the estimated groundwater plume. Review of the Texas Water Development Board's Interactive Mapper and Database identified four water wells in the water well record search. Three of the four water wells have been plugged and abandoned. One active well is reportedly used only as an emergency PWS well by the City of Grand Prairie (State well

ID number 3309703). The four identified water wells are on Table 3-2, which lists well locations, owner information, and status. The logs for all four wells are included in Appendix D. Appendix E contains EnSafe's soil boring and monitor well logs for drilling activities conducted as part of the investigation activities at the Former Delfasco Forge facility illustrating general subsurface conditions in the immediate area. The Receptor Survey Map (Figure 1.1) shows the water wells and their associated State well ID numbers.

In August 2004, EnSafe confirmed, by telephone and in person, the existence and/or locations of the seven identified private wells. Only three (PW01, PW02, PW03; see Figure 2.1) of the seven reported wells were found to be in existence. The other four initially-reported wells turned out to be inaccurate information or the well had been properly plugged and abandoned. According to residents at the three (PW01, PW02, PW03) properties, these wells were historically used for irrigation purposes only, and none of these wells has been used in the last 15 to 20 years. Two of the private wells (PW01 and PW03) were dry during the site visit in August 2004. Private well PW02 contained groundwater during the August 2004 investigation and was sampled for VOCs.

In March 2006, EnSafe confirmed in person the existence and/or locations of the sixteen identified private wells. Only nine (PW04, PW05, PW07, PW08, PW09, PW10, PW14, PW15, and PW17; see Figure 1.1) of the sixteen reported wells were found to be in existence. The existence and location of five wells (PW06, PW11, PW12, PW13, and PW16) have not yet been confirmed in person by EnSafe. The other two initially-reported wells were based on inaccurate information or the well had been properly plugged and abandoned. All identified private wells within the plume area and within 0.25-miles of the plume are listed in Table 3-2, which provides information regarding well locations, owner information, and status.

4.2 Affected or Potentially Affected Water Wells

Private wells, PW01 and PW03, due to their location within the affected groundwater plume, have the potential to be impacted. However, these wells have been dry during site visits by EnSafe. Private well PW02 which lies within the affected groundwater

plume was sampled in August 2004 and was found to have low concentrations of TCE, slightly above the PCLs. All other private wells initially listed as affected or potentially affected in the table and figure sent to TCEQ in March 2006 have been determined to be outside the affected groundwater plume (As defined with the installation of monitor wells MW19, MW20, MW21, MW22, MW23, MW24 and MW25) and data suggests that they are not likely to be impacted in the future. None of these wells were reported in use.

5.0 CONCLUSIONS

On behalf of Delfasco, Inc., EnSafe has performed the drinking water survey and has identified twelve wells within the prescribed search radii. Eleven private wells are located at residential properties and one public supply well (City of Grand Prairie, State Well ID No. 3309703) is located northwest of the affected properties. The existence and/or location of five reported wells have not been confirmed by EnSafe. One well (PW05) is currently connected and used for lawn irrigation. PW05 is located upgradient to and outside of the affected groundwater plume and is not affected or potentially affected. Other residents who own the private wells indicated that their wells were not in use and that the well pumping apparatus was inoperable or not present. Furthermore, the residents indicated that these wells historically had only been used for irrigation purposes and had not been used for at least 15 to 20 years. One of the wells (PW02) contained groundwater and was sampled by EnSafe in August 2004. TCE and its daughter products were detected in the well at low concentrations and the resident was notified of the results and EnSafe recommended that they not use water from this well.

A local PWS search was conducted and all properties within the specified search radii are supplied potable water by the City of Grand Prairie PWS. The public supply well located northwest of the former Delfasco facility is still active; however, it only provides water for emergency public water supply to the City of Grand Prairie. The well is steel-cased to its depth of 2163 bgs and is screened from 2,006 to 2,163 feet bgs. Due to the depth of the well, casing materials, and distance from the affected groundwater plume, it is unlikely that the groundwater in this well has been affected.

EnSafe adhered to the Minimum Requirements of the Preparation of a Drinking Water Survey Report as provided in this report. The list of residents within the estimate groundwater plume is listed in Table 3-1.

Although groundwater in the vicinity of the former Delfasco facility is affected with TCE, receptor sites are limited and their use has been evaluated and determined to be low risk due to the condition and construction (PW04 – PW09 and PW11 – PW17), and

distance from the plume (City of Grand Prairie, State Well ID No. 3309703, PW10). Although private wells PW01, PW02 and PW03 lie within the affected groundwater plume, they are not in use and currently not plumbed and are inoperable. PW01 and PW03 were dry during site visits by EnSafe. EnSafe will continue to monitor the receptors presented in this report throughout the subsurface investigation to determine changes in their status and to ensure they are not being utilized.

6.0 REFERENCES

- *Preparation of a Drinking Water Survey Report*, Texas Commission on Environmental Quality Remediation Division. RG-428, November 2005.
- *Instructions for Collecting and Submitting Site and Private Water Well Location Information*, Texas Commission on Environmental Quality Remediation Division. October 28, 2005.
- Texas Water Development Board Well Database, Interactive Mapper and Database, <http://www.twdb.state.tx.us/mapping/interactive.asp>
- TCEQ Response to *Amended Voluntary Cleanup Program (VCP) Agreement and Project Update*, Former Delfasco Forge Facility, 114 Northeast 28th Street, Grand Prairie, Dallas County, TX; Voluntary Cleanup Program (VCP) No. 1571. Texas Commission on Environmental Quality, February 17, 2005.
- *Phase I Environmental Site Assessment - Delfasco Forge Facility, 114 Northeast 28th Street, Grand Prairie, Dallas County, TX*, Environmental Consultant Services. May 2001.
- *Receptor Survey Report - Delfasco Forge Facility, 114 Northeast 28th Street, Grand Prairie, Dallas County, TX*, EnSafe Incorporated. March 2005.
- *Geologic Atlas of Texas – Dallas Sheet*, Bureau of Economic Geology, University of Texas at Austin, 1972.
- *Soil Survey of Dallas County*, United States Department of Agriculture, Soil Conservation Service, 1975.

DRINKING WATER SURVEY REPORT

Conducted on

Former Delfasco Forge Facility
VCP No. 1571
114 Northeast 28th Street
Grand Prairie, Texas

for

Delfasco Forge

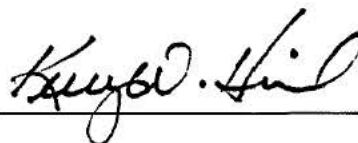
Issue Date: September 25, 2006

Jay Spence
Registered Professional Geologist



Signature

Kerry Hill, PG
Registered Professional Geologist



Signature

Prepared by:

EnSafe Inc.
4545 Fuller Drive, Suite 342
Irving, Texas 75038

(972) 791-3222
Phone

(972) 791-0405
Fax

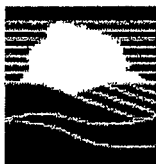


Appendix A
Mailing Labels

(b) (6)



Appendix B
TCEQ Minimum Requirements for a Drinking Water Survey Report



Preparation of a Drinking Water Survey Report

Purpose

This document outlines the minimum procedures necessary for the regulated community to prepare and submit a Drinking Water Survey Report to the Remediation Division (RD) of the Texas Commission on Environmental Quality (TCEQ). The Drinking Water Survey Report will provide information on water wells and sources of drinking water in the area near groundwater contamination. Submit the Drinking Water Survey Report when initially reporting a case of groundwater contamination to the RD, and at any other time when requested by the RD.

The RD will use the report to comply with Texas Water Code (TWC) §26.408. TWC §26.408 requires the TCEQ, within 30 days of the date the TCEQ receives notice or otherwise becomes aware of a case of groundwater contamination, to notify owners of private drinking water wells that may be affected by the groundwater contamination. If another Division of the TCEQ has evaluated the applicability of the groundwater contamination under TWC §26.408, submittal of the Drinking Water Survey Report to the RD is not required.

Applicability

Texas Water Code (TWC) §26.408 applies to any information that, for the first time on or after September 1, 2003, indicates that a private drinking water well is or may be affected by groundwater contamination. Therefore, the statute applies to all sites entered into a corrective action program on or after September 1, 2003 and to sites entered before that date when new evidence is submitted that indicates a private drinking water well is or may be affected.

If the TCEQ received documentation or otherwise discovered prior to September 1, 2003 that a private drinking water well was or might be affected by groundwater contamination, TWC §26.408 is not applicable. However, a Drinking Water Survey Report may still be requested by the RD to ensure that notice is provided to all affected or potentially affected private drinking water well owners and users.

Activities necessary for the completion of a Drinking Water Survey Report are also applicable to the performance of an affected property assessment under the Texas Risk Reduction Program (TRRP) rule. Use the information collected for a Drinking Water Survey Report in the

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preparation of a TRRP Affected Property Assessment Report (APAR). Be aware, however, that TRRP requires the identification of additional sensitive receptors such as schools and day care centers within 500 feet of the affected property boundary and surface water bodies within 0.5 miles of the known extent of groundwater contamination. In order to reduce or eliminate redundancy, record for later use the presence of other sensitive receptors noted in the surveys required by this document.

Background

The 78th Legislature passed House Bill 3030 which was subsequently codified as §26.408, Subchapter J of the TWC. The Act reads:

SECTION 1. Subchapter J, Chapter 26, Water Code, is amended by adding Section 26.408 to read as follows:

26.408. NOTICE OF GROUNDWATER CONTAMINATION.

(a) If a state agency documents under Section 26.406(a) a case of groundwater contamination that may affect a drinking water well, the state agency shall notify the commission.

(b) Not later than the 30th day after the date the commission receives notice under Subsection (a) or obtains independent knowledge of groundwater contamination, the commission shall make every effort to give notice of the contamination by first class mail to each owner of a private drinking water well that may be affected by the contamination and to each applicable groundwater conservation district.

(c) The committee by rule shall prescribe the form and content of notice required under this section.

SECTION 2. This Act takes effect September 1, 2003, and applies only to a case of groundwater contamination documented on or after that date. A case of groundwater contamination documented before the effective date of the Act is governed by the law in effect on the date the contamination is documented, and the former law is continued in effect for that purpose.

TWC §26.408 significantly affects how the TCEQ and, in particular, the RD responds to reports of groundwater contamination. In short, the law allows the TCEQ a maximum of 30 days to provide notice to owners of private drinking water wells that may be affected by groundwater contamination. Title 31 Texas Administrative Code (TAC) Chapter 601 Subchapter B (relating to Notice of Groundwater Contamination), which was adopted by the TCEQ in response to TWC §26.408, prescribes the form and content of the notice.

Implementation of TWC §26.408 requires new actions to be taken by both the regulated community and RD staff. Historically, the regulated community initially reported a case of groundwater contamination to the RD and, at a later date, submitted an assessment report that included a discussion of potential receptors, such as the location and use of surrounding water wells. In order for the RD to meet the 30-day timeframe, the regulated community must provide information on water wells at the same time the case of groundwater contamination is initially reported or immediately thereafter.

Therefore, complete and submit a Drinking Water Survey Report when reporting a new case of groundwater contamination to the RD (or at any time thereafter when requested by the RD

including a request to update the report). The submittal of a Drinking Water Survey Report will ensure the RD is consistently alerted and provided sufficient information to evaluate TWC §26.408 applicability and complete any required notifications within the statutorily required 30-day time frame. Realize that if the groundwater assessment is completed in a phased manner, re-evaluation of the steps discussed later in this guide will be necessary at the completion of each phase.

Definitions

The definitions for the following terms were obtained from the Texas Administrative Code (TAC) when available. These definitions limited to use in this document and other related documents, are provided in order to determine applicability and ensure consistent implementation of TWC §26.408 within the Remediation Division.

Groundwater – water below the land surface in a zone of saturation (31TAC §601.3).

Groundwater contamination – the detrimental alteration of the naturally occurring physical, thermal, chemical or biological quality of groundwater reasonably suspected of having been caused by activities or by entities under the jurisdiction of the TCEQ (31 TAC Chapter 601). For the purpose of this document, the Remediation Division limits groundwater contamination to chemical concentrations that exceed residential health-based values for ingestion.

Groundwater production zone – the zone of saturation in which a water well is screened or completed. If the well completion is unknown or incomplete, the groundwater production zone includes each saturated zone penetrated by the well.

Person – an individual, corporation, organization, government, or governmental subdivision or agency, business trust, partnership, association, or any other legal entity (30 TAC Chapter 350).

Private drinking water well – a non-public water well that is used for human consumption or is plumbed to a structure for potable purposes.

Public water well – a water well that has at least 15 service connections or serves at least 25 individuals at least 60 days out of the year (30 TAC Chapter 290).

Information Collection

The following procedures outline the minimum necessary steps for the preparation of a Drinking Water Survey Report. Repeat this process if the assessment is conducted in a phased approach.

Step 1: Identify Local Public Drinking Water Source(s)

Purpose: to document the availability of a public water supply (PWS) within the coverage area and to identify the properties that are not serviced by or connected to an existing public water supply.

Coverage area: 0.5 miles beyond the known extent of groundwater contamination.¹

Minimum information sources: Local retail public utilities (including individuals responsible for meter reading), municipalities, groundwater conservation districts, neighborhood associations, local water well drillers, the TCEQ, and the Texas Water Development Board (TWDB).

Step 2: Conduct a Records Survey of Water Wells

Purpose: to locate all recorded water wells within the coverage area and to determine the groundwater production zone(s). The RD recommends also locating surface water bodies within 0.5 miles of the known extent of groundwater contamination in order to reduce or eliminate redundancy with the performance of an affected property assessment.

Coverage area: 0.5 miles beyond the known extent of groundwater contamination.¹

Minimum records sources: topographic maps, water well records filed with the Texas Department of Licensing and Regulation, the TWDB, the TCEQ, and the applicable groundwater conservation district.

Step 3: Conduct a Field Survey for Water Wells

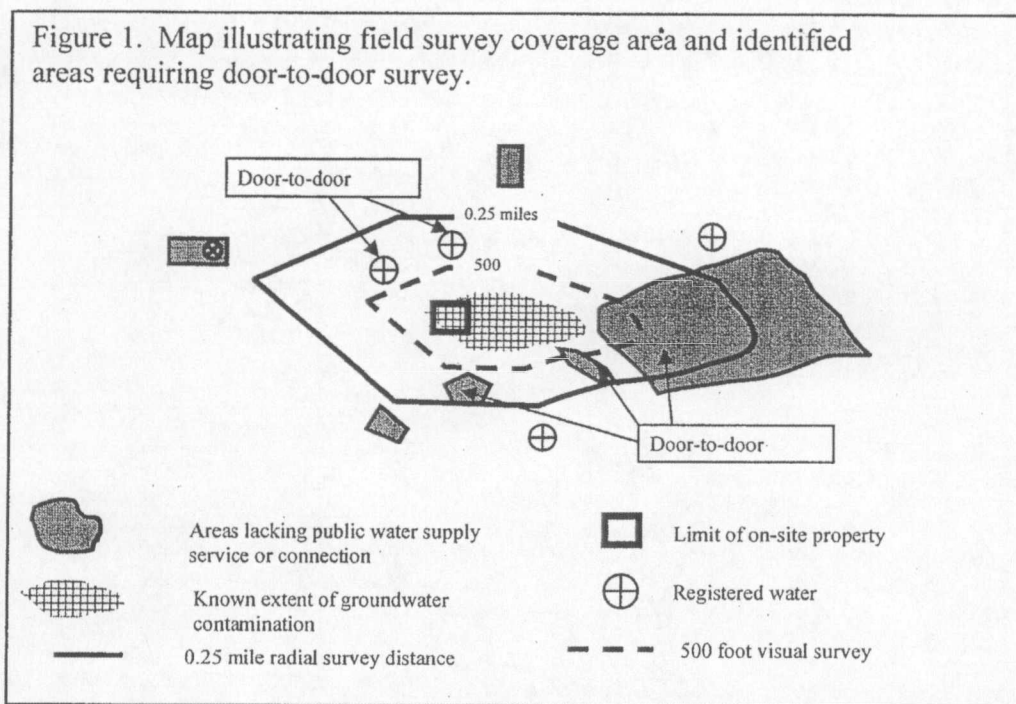
Purpose: to locate water wells that were not identified during the records survey and to confirm the information obtained during the records survey.

Coverage area: visual survey within 500 feet and door-to-door survey within 0.25 miles of the known extent of groundwater contamination¹ (see Figure 1).

Minimum requirements for field survey (see Figure 1):

- Conduct a visual survey for water wells within 500 feet of the known extent of groundwater contamination¹,
- Conduct a door-to-door survey within 0.25 miles of the known extent of groundwater contamination¹ at properties
 - not serviced by or connected to a public water supply,
 - where a water well was identified during the record survey, and
 - where a water well is suspected to be present based on the field survey.

¹ Ideally the extent of groundwater contamination should be defined to residential health-based values prior to making this determination. If not, the boundary is based on the known extent of groundwater contamination at the time the survey is conducted. The survey will need to be repeated as the groundwater contamination is further defined.



Conduct a visual survey (drive or walk the area) to determine if there is visual evidence of a water well. Presume a private drinking water well is present at a property not connected to a public drinking water supply if the absence of a water well can not be confirmed. Presume a water well is used to supply drinking water if the use of a well cannot be confirmed. Conduct a door-to-door survey in areas where a water well is known or suspected to be present.

During the door-to-door survey, collect the latitude and longitude coordinates, obtain the current mailing address and telephone number for the owner and user(s), and determine the use of each water well. Instructions for collecting and submitting the latitude and longitude coordinates are located at www.tceq.state.tx.us/remediation/twc26.408.html. This information should be submitted in electronic format as Attachment 3 of the Drinking Water Survey Report.

If the absence of a private drinking water well cannot be confirmed because the landowners/tenants are unavailable, contact the property owner by phone to obtain information regarding the presence or absence of a private drinking water well on the property. The RD recommends also locating other sensitive receptors (schools, day care centers, etc.) within 500 feet of the known extent of groundwater contamination in order to reduce or eliminate redundancy during the performance of an affected property assessment.

Step 4: Prepare and Submit Drinking Water Survey Report

Report Format: The following describes the required content and format for the Drinking Water Survey Report. The RD intends that the Drinking Water Survey Report not be heavily text laden. Rather, include brief text and rely principally on graphical and tabular presentations of data.

Submit the original and one copy of the Drinking Water Survey Report to the appropriate program of the RD. Also include a CD of the requested electronic files.

Please be aware that the Remediation Division verifies that Professional Geoscientist's seals as required by law are provided on reports submitted to the agency. For information on what constitutes geoscience and the requirements for geoscientist licensing, please refer to the Board of Professional Geoscientists' web page at <http://www.tbpg.state.tx.us>.

Transmittal Form: Complete the Drinking Water Survey Report Transmittal Form provided as Attachment 1. The transmittal sheet must accompany the Drinking Water Survey Report and be plainly visible. Submit a copy of the Drinking Water Survey Report Form to the appropriate TCEQ Regional Office. A list of TCEQ Regional Offices may be found at the TCEQ web page at http://www.tceq.state.tx.us/about/directory/maps_index.html.

Executive Summary: Briefly describe the layout and use of the site, the contaminants in groundwater, any areas or locations without public water supply, and the number of private drinking water wells that are affected or potentially affected by the groundwater contamination.

Section 1. Groundwater Contamination: Discuss the groundwater contamination present at the site, including the concentrations of contaminants. Identify any water wells that have been sampled. Discuss the current phase of investigation, including whether or not the lateral and vertical extent of groundwater contamination has been defined to residential health-based values based on groundwater ingestion.

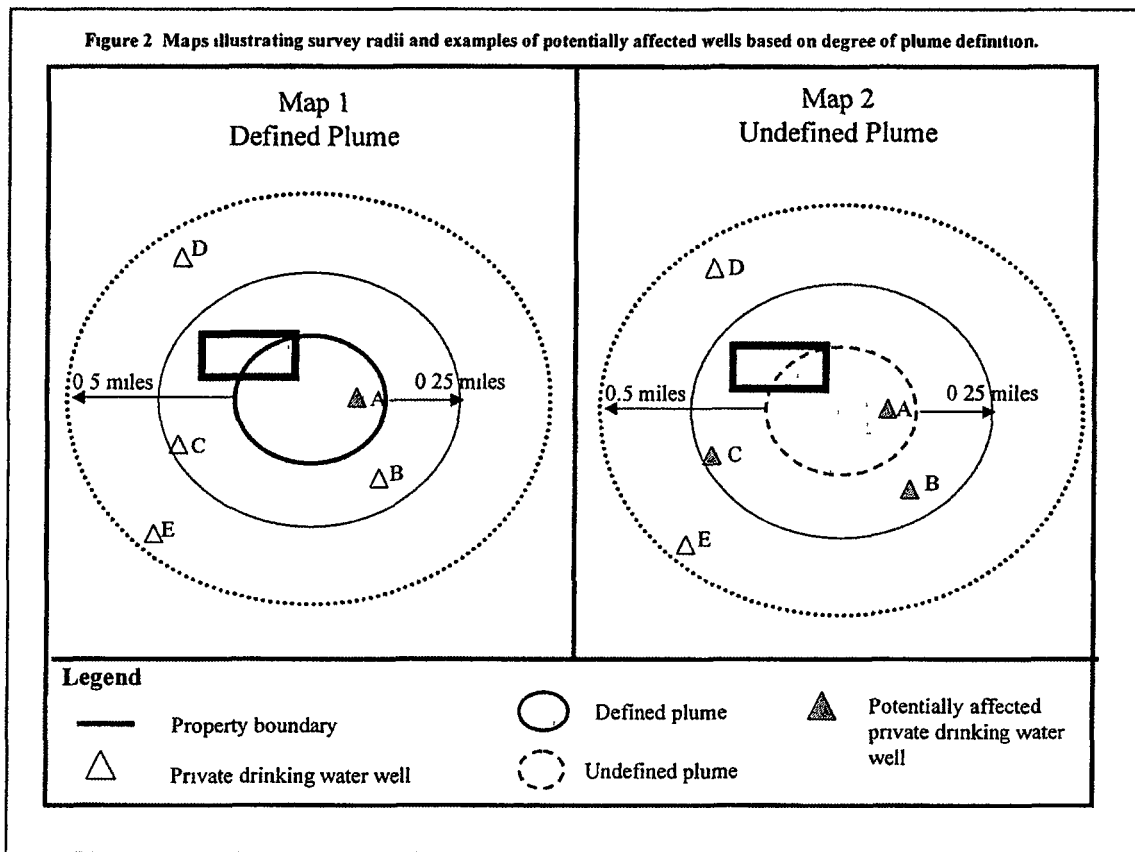
Section 2. Public Water Supply Availability: Discuss public water availability within one-half mile of the known extent of groundwater contamination. Note any areas not serviced by public water and properties not connected to an existing public water supply. Document how the information was obtained and provide names and contact information for the individuals who have provided pertinent information.

Section 3. Groundwater Production Zones: Identify the general groundwater production zones (as defined in this guidance) for the private drinking water wells identified in the records search and field survey.

Section 4. Affected or Potentially Affected Water Wells: Identify the private drinking water wells that are affected or potentially affected by the groundwater contamination. See Figure 2 for an illustration of potentially affected private drinking water wells relative to plume definition.

The default assumption is a private drinking water well is potentially affected if the well is located within the known extent of groundwater contamination (Well A in Map 1 and Map 2) or the private drinking water well is located within 0.25 miles of groundwater contamination that has not been defined (Well B and Well C in Map 2).

Figure 2 Maps illustrating survey radii and examples of potentially affected wells based on degree of plume definition.



Document the logic used to determine a water well is not affected or potentially affected. At a minimum, consider the following:

- Known extent of groundwater contamination and whether the groundwater contamination has been defined,
- Groundwater production zone of the water well,
- Age, design, and construction of the water well,
- Local hydrogeology, and
- Chemical and physical characteristics of the contaminant.

Map of Water Well Locations: Illustrate the following on a single map:

1. Boundaries of the on-site property;
2. Boundaries of properties within 0.25 miles of the known extent of groundwater contamination;
3. Areas without a public water supply and any properties that are not connected to an existing public water supply;
4. Known extent of groundwater contamination and illustrate whether the extent has been delineated to residential health-based values based on groundwater ingestion;
5. All water wells (drinking and non-drinking) identified in the records search and field survey. Label each well with a unique identification number;

6. Private drinking water wells by using a unique symbol for those wells; and
7. Radial coverage areas (500-foot, 0.25-mile, and 0.5-mile).

Table of Water Well Information: Provide a table of all water wells identified in the record and field survey.

Map ID Number ¹	State Well ID Number ²	Distance from known extent of groundwater contamination (feet)	Physical Address of Well	Well Type ³	Total Depth (feet) ⁴	Screened Interval (feet) ⁴	Sealed Interval (feet) ⁴	Private Drinking Water Well? (Yes or No) ^{4,5}	Affected or Potentially Affected? (Yes or No)	Well Owner Name, Current Mailing Address and Phone ⁵	Well Users Name, Current Mailing Address and Phone ⁵

- 1 Organize water wells from those nearest to the site to those furthest from the site
- 2 Provide State Well Id number if available
- 3 Private – "PRV", Irrigation – "I", Injection – "J", Industrial – "N", Public Supply – "P", Unknown – "U"
- 4 Enter "Unknown" if insufficient or no data is available.
- 5 Provide this information only for water wells located within the coverage area of the field survey

Table 2. Analytical Results: Submit a table of analytical results for groundwater samples collected from monitoring wells and water wells.

Attachment 1. Well Reports: Submit all available well reports for water wells identified in the records search and field survey.

Attachment 2. Mailing Lists: Provide mailing labels for each owner and user of an affected or potentially affected private drinking water well.

Attachment 3. Electronic Files: Provide an electronic file of Table 1 in Microsoft Word[®] or Microsoft Excel[®] format. Provide an electronic file of the water well information collected during the door-to-door survey in Microsoft Access[®] or .dbf format. Provide an electronic file of mailing labels (Attachment 2) in Microsoft Word[®] or Excel[®] formatted as a data source for mail merge to generate the notification letters required under TWC §26.408. These files should be submitted on a CD along with the report.

ATTACHMENT 1

REMEDIATION DIVISION - DRINKING WATER SURVEY REPORT TRANSMITTAL FORM

BACKGROUND: TWC §26.408 requires the TCEQ, within 30 days of the date the TCEQ receives notice or otherwise becomes aware of a case of groundwater contamination, to notify owners of private drinking water wells that may be affected by the groundwater contamination.

USE: Use this form as a transmittal sheet to a Drinking Water Survey Report.

Program: _____	Transmittal Date: _____
Program ID No.: _____	Document Date: _____
Facility Name: _____	
Physical address of property where groundwater assessment was conducted	
Street _____	City _____
Do the concentrations in groundwater exceed residential health-based values?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Has the extent of groundwater contamination been defined to residential health-based values based on ingestion?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are there any private drinking water wells located within a 0.25-mile radius of the property boundary or known extent of groundwater contamination?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Based upon the available data, do groundwater concentrations exceed or are they suspected to exceed residential health-based values in any water well?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Appendix C
City of Grand Prairie Public Water Supply Map

Not Available

Appendix D
Water Well Logs

100 - 100

王 德 安 著 吳 德 安 校 對 王 德 安 校 對 王 德 安 校 對 王 德 安 校 對

WFL 8301632

Agusfer Wanbive

NAME _____

State Roll No. 33-07-702

Dear's Nell Wa.

0-20000 2/1/55

1. Location: 1/4 Sec. Block Survey
3rd & Bowles St.
2. Owner: City of Grand Prairie Address: Grand Prairie, Tex.
County: Address:
Hillman: Address:

1. Elevation of _____ to _____ ft. above sea, determined by _____

4. Drilled _____ 1952 Aug. Col'ds Tool (Rings)

S. Deputy Asst. 150 ft. High. _____ ft.

6. **Completion:** Open Ends, Straight Wall, Understand, Gravel Packed

7. Date Recd. _____ Date Transmitted

No. Stages. Holes Dia. In. Getting 325 Th.

College Elec. _____ to, Large Tailpipe _____

to: Mr. J. Edgar Hoover Director FBI Washington, D.C. 100-371092

5. NAME PLD SSN DOB AGE MOB INT

10. Performance Factor _____ Date _____ Length of Test _____ Made by _____

Static Level ft. Pumping Level ft. Drawdown ft.

Production _____ cwt Specific Gravity _____ gm/cc.

11. Water Levels at Sta. 19 down station 1a at 1200 surface.

_____ ft. 214. _____ 19 _____ ft. 200 surface.

..... A. W. T.

----- ft. 15 ft. -----

Bus., Stock, Public Supply Ind., Iron, Natural Gas, Construction, Ent. Prod., Transportation, Communication, Education, Health, Recreation, Food, Alcohol, Drugs, Other

11. ~~Quality~~ (Remarks on taste, odor, color, etc.)

Temp. _____ T. Date required for analysis _____ Laboratory _____

Tand. T. Note required for analysis Laboratory.

Temp. _____ °F, Date sampled for analysis _____ Laboratory _____

12. Other data available as follows: Trailer's Log, Radioactivity Log, Electric Log.

Foreign Service, Training Test.

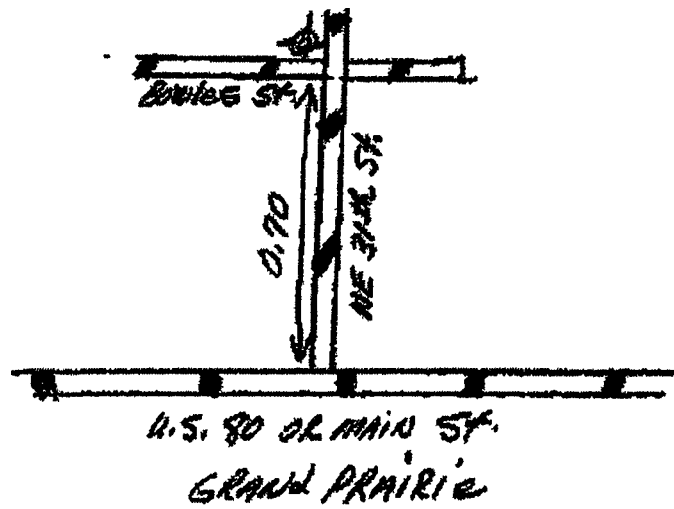
U.S. DEPT. OF JUSTICE *Gene Davis* May 5-87 1975

Journal of the

14. ~~REMARKS~~ Formerly owned by Tami Water Co.

well into plugged & abandoned

[illegible][illegible]



GROUND-WATER DIVISION

WILL SCHEIDT

Date 3/22, 1960 Field No. _____

Record by 628 Office No. 4

Source of data Mr. [illegible] - [illegible]

1. Location: County Delaware

Map ~~area~~ city center (3/4" and Boulev)

Summary

2. Domain: Category: Language Address: # 19

[illegible]

NAME	ADDRESS
WILLIAM	

3. Telephone

--	--	--	--

4. Elevation 4753 R. 1451

5. Types Des, Writen, Sorted, Indexed 4 50

6. Depth 400 f. Meas. 1

7. Cartridge Diam. 5 in., in _____ in., Type _____

Depth _____ ft., Finish _____

6. Chief Engineer Woodville From to

Other _____

9. Water Levels _____ R. Depth _____ 10. Surface _____

which is _____ ft. above surface
being _____

6. Printer Type 7 Depth 500 Spots 100

Поиск:

1. Vladimir Kozlov, Soviet Union, born 1947, height 6'0", weight 180 lbs., place Novosibirsk

DATE: 12/11/1964

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-11-2010 BY 60322 UCBAW

[illegible]

10-10-68

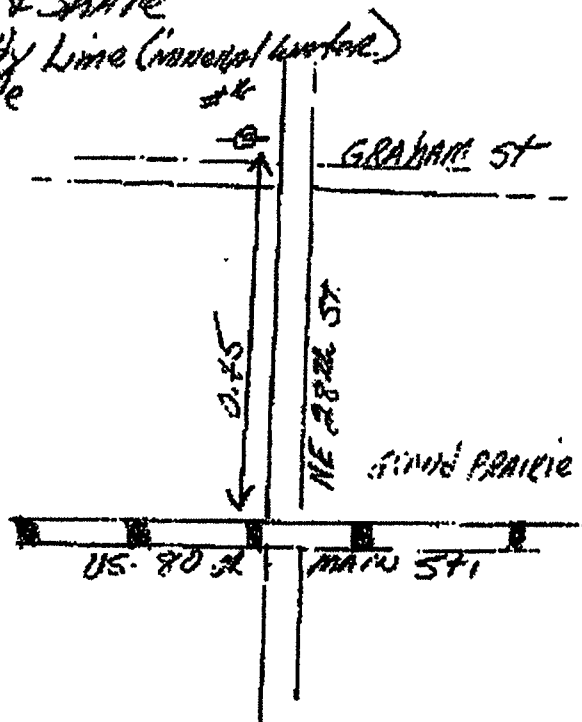
15

Pinus

~~_____~~

DRILLER'S LOG

0-20 - SURFACE SOIL
 50 - SAND, GRAVEL & CLAY
 195 - SHALE
 510 - SAND, BROKEN WITH SHALE
 815 - BROKEN LIMESTONE & SHALE
 912 - SHALE
 985 - LIMESTONE
 1010 - SHELLS
 1090 - SAND
 1120 - SHALE
 1145 - SAND
 1350 - BROKEN LIMESTONE & SHALE STRATA
 1625 - LIMESTONE & SAND LAYERS
 1850 - BROKEN LIMESTONE & SHALE
 1900 - SAND & SANDY LIMESTONE (interbedded layers)
 1925 - BROKEN LIMESTONE & SHALE
 2140 - SAND
 2165 - SHALE



Form GW-1

**TEXAS BOARD OF WATER ENGINEERS
GROUND-WATER DIVISION**

WELL SCHEDULE

Date 5/27, 1961 Field No. _____
 Record by WDS Office No. HPS-7407
 Source of Data City of Dallas - Water Supply

1. Location County Dallas
 Map see city map (28th & Graham)
 Survey _____
2. Owner: City of Dallas Address _____
 Tenant _____ Address _____
 Driller: V. L. Myers Sons Address _____
3. Topography _____
4. Elevation: 1002.5 MSL
5. Type: Dr. drilled drive, bored, jetted 1953
6. Depth: Rept. 210 ft. Meas. _____ ft.
7. Casing: Dia. _____ in., to _____ in., Type _____
 Depth _____ ft. Finish _____
8. Chief Aquifer: Travis peak From _____ ft. to _____ ft.
 Others _____
9. Water level: _____ ft. vert. _____ ft. above _____
 _____ ft. below _____ which is _____ ft. above surface
 below _____
10. Pump: Type T-ant Capacity _____ gpm
 Power Kind E Horsepower 150 14.5
11. Yield: Flow _____ gpm, Pump 483 gpm, Meas. Exp. 1760
 Drawdown _____ ft. after _____ hours pumping _____ gpm
12. Use: Dom., Stock, AG, RR., Ind., Oth. Exp.
 Adequacy, Remarks _____
13. Quality: _____
 Temp. _____ °F Sample Yes NO
14. NO 100 log in city file
15. Remarks: 1.5 : 792' well #11 in C. Hard's

Form GW-1

TEXAS BOARD OF WATER ENGINEERS
GROUND-WATER DIVISION

WELL SCHEDULE

33-09-703

Date 10-16, 1956 Field No. _____
Record by Charles Bond Office No. 11
Source of data Ed Walker

1. Location: County Dallas
Map _____

Survey _____

2. Owner: City of Grand Prairie - # 16

Tenant _____ Address _____

Driller: J. Z. Myers, Jr. Address _____

3. Topography: _____

4. Elevation: 492 ft. above _____

5. Type: Dig, drilled, driven, bored, jetted _____ ft.

6. Depth: Rept. 2163 ft. Meas. _____ ft.

7. Casing: Diam. _____ in. to _____ in., Type _____

Depth _____ ft., Finish _____

8. Chief Auditor: TP From 1900 ft. to 2050 ft.

Where _____

13. Water level: 399 _____ ft. above _____

which is _____ ft. above surface

14. Pump: Type Submersible Capacity 520 gpm, 210 ft.

Power: Kind Electric Horsepower 150

11. Yield: Flow _____ gpm, Pump 520 gpm, Meas. 520 gpm

at _____ ft. after _____ hours pumping 520 gpm

12. Head: Dem. 645 ft., R.R., Ind., Obs. Str. _____

Adequacy, permanence _____

13. Quality: _____

Temp. _____ °F Sample Yes _____ No _____

14. Log: Yes _____ No _____

15. Remarks: _____

TEXAS WATER DEVELOPMENT BOARD — WATER LEVEL MEASUREMENTS

OWNER - City of Grand Prairie AS OF 4/16

LOCATION - GRAHAM - NE 28th

MEASURING POINT DESCRIPTION - *Air Line*

[illegible]

**YR. DEC.
BEGIN**

AQUIFER

COUNTY

WATERSHED

OLD WELL NUMBER

COUNTY .

THOSE-075-41

33-09-703

TEXAS WATER DEVELOPMENT BOARD — WATER LEVEL MEASUREMENTS

OWNER City of Edinburg AS OF

LOCATION -

MEASURING POINT DESCRIPTION -

[illegible]

**YR REC.
BEGINS**

ACHUFER

COUNTY

WATERSHED

OLD WELL NUMBER

COUNTY -

TIME-ON-41

23-02-703

TERRA WATER DEVELOPMENT BOARD

WELL RECORD

Appl. Windmill Field No. #391 State Well No. 33-17-105
 Owner's Well No. #1 County Dallas

1. Location: 2A 1/4 Sec. Block Survey

2. Owner: U.S. Air Force Address: Grand Prairie, Tex.

Tenant: Hensley Field

Address:

Driller: J.H. Myers Sons

Address:

3. Elevation of 440 ft. above sea, determined by T.P.O.

4. Drilled: 3-21-41 by 41 ft. Casing, Casing, 413'

5. Casing: 485 ft. Casing, Plugged back to

6. Completion: Open Hole, Straight Wall, Underreamed, Javel Packed 413'

7. Pump: Windmill Type Turbine

8. Casing: 8" steel 0 390

9. Casing: 6" steel 390 413'

10. Motor: Elect Make & Model 15

11. Fluid: Water Sp. Pump 100 ft. Head, 100 ft.

12. Performance Test: Date 5-22-57 Length of Test 15 Mins. by 15

Static Level 390.0 ft. Pumping Level 390 ft. Discharge 15 ft.

Production 390.0 gpm Specific Gravity 1.0

13. Water Level: 390.0 ft. 15 ft. above surface, which is 15 ft. above surface.

15 ft. 15 ft. above surface, which is 15 ft. above surface.

15 ft. 15 ft. above surface, which is 15 ft. above surface.

15 ft. 15 ft. above surface, which is 15 ft. above surface.

14. Use: Dr., Stock, ~~Water~~, Irr., Tr., Waterflooding, Subirrigation, Not Used Plugged & Abandoned

15. Quality: (Report on taste, odor, color, etc.)

Temp. 7, Date sampled for analysis 5-22-57 Laboratory 15

Temp. 7, Date sampled for analysis 5-22-57 Laboratory 15

Temp. 7, Date sampled for analysis 5-22-57 Laboratory 15

16. Other data available as checked: Seismicity Log, Electric Log

Formation Sample, Pumping Test

17. Pump: Windmill Type Turbine

Source of Data TBWE Sch

18. Remarks: Plugged & Abandoned

Topic 68.1

TEXAS BOARD OF WATER ENGINEERS

ON GUARD-WATER DIVISION

WILD SCIENCE

Date 3/24, 1961 Field No.

Record by WLB Office No. HK 5317105

Signature of Agent Mr. Frank Vincent E. Moore

1. Location: Nollac, County
2.2 mi. E. of center of Grand Prairie
Server in building # 323 (see back)
2. Owner: 45 Air Force Address: Grand Prairie, Tex.
 Tenant: Wendy Rife #1 Address: _____
 Driller: J. H. Myers & Sons Address: Nollac, Tex.
3. Topography: rolling prairie
4. Elevation: 494 ft. 115 ft.
5. Types: Grilled, driven, bored, cased 1947
6. Depth: 450 ft. Meas. ft.
7. Casing: 8 in. dia. 200' 100' 50' 25' 12.5' 6.25' 3.125' 1.5625' 0.78125' 0.390625' 0.1953125' 0.09765625' 0.048828125' 0.0244140625' 0.01220703125' 0.006103515625' 0.0030517578125' 0.00152587890625' 0.000762939453125' 0.0003814697265625' 0.00019073486328125' 0.000095367431640625' 0.0000476837158203125' 0.00002384185791015625' 0.000011920928955078125' 0.0000059604644775390625' 0.00000298023223876953125' 0.000001490116119384765625' 0.0000007450580596923828125' 0.00000037252902984619140625' 0.000000186264514923095703125' 0.0000000931322574615478515625' 0.00000004656612873077392578125' 0.000000023283064365386962890625' 0.0000000116415321826934814453125' 0.00000000582076609134674072265625' 0.000000002910383045673370361328125' 0.0000000014551915228366851806640625' 0.00000000072759576141834259033203125' 0.000000000363797880709171295166015625' 0.0000000001818989403545856475830078125' 0.00000000009094947017729282379150390625' 0.000000000045474735088646411895751953125' 0.0000000000227373675443232059478759765625' 0.00000000001136868377216160297393798828125' 0.000000000005684341886080801486968994140625' 0.0000000000028421709430404007434844970703125' 0.00000000000142108547152020037174224853515625' 0.000000000000710542735760100185871124267578125' 0.0000000000003552713678800500929355621337890625' 0.00000000000017763568394002504646778106689453125' 0.000000000000088817841970012523233890533447265625' 0.0000000000000444089209850062616169452667236328125' 0.00000000000002220446049250313080847263336181640625' 0.000000000000011102230246251565404236316680908203125' 0.00000000000000555111512312578270211815833404541015625' 0.0000000000000027755575615628913510590791670227078125' 0.00000000000000138777878078144567552953958351135390625' 0.000000000000000693889390390722837764769791755676953125' 0.0000000000000003469446951953614188823848958778384765625' 0.00000000000000017347234759768070944119244793891923828125' 0.000000000000000086736173798840354720596223969459619140625' 0.0000000000000000433680868994201773602981119847298095703125' 0.00000000000000002168404344971008868014905599236490478515625' 0.000000000000000010842021724855044340074527996182452392578125' 0.00000000000000000542101086242752217003726399809122619640625' 0.000000000000000002710505431213761085018631999045613098203125' 0.0000000000000000013552527156068805425093159995228065491015625' 0.00000000000000000067762635780344027125465799976140327455078125' 0.000000000000000000338813178901720135627328999880701637275390625' 0.0000000000000000001694065894508600678136644999403508186376953125' 0.00000000000000000008470329472543003390683224997017540931884765625' 0.000000000000000000042351647362715016953416124985087704659423828125' 0.0000000000000000000211758236813575084767080624925438523297119140625' 0.0000000000000000000105879118406787542383540312462719261648559689453125' 0.00000000000000000000529395592033937711917720157313596308242798447265625' 0.000000000000000000002646977960169688559588600786567981541213992236328125' 0.0000000000000000000013234889800848442797943003932839907706069961181640625' 0.00000000000000000000066174449004242213989715019664199538530349805908203125' 0.000000000000000000000330872245021211069948575098320997692651749029541015625' 0.00000000000000000000016543612251060553497428754916049884632587451477078125' 0.000000000000000000000082718061255302767487143774580249423162937257385390625' 0.0000000000000000000000413590306276513837435718872901247115814686286926953125' 0.000000000000000000000020679515313825691

Drilled Log
 0.8 - Yellow Clay
 15 - Yellow Clay
 51 - Sand & Gravel
 190 - Sand & Shale
 190 - Hard Sand Rock
 209 - Sand
 262 - Brown Shale
 314 - Sand
 375 - Shale
 378 - Limb Rock
 401 - Fine Sand
 485 - Shale

33-17-105

ANALYTICAL STATEMENT COUNTY DeKalb

WVI No. HR2317105

Location US Air Force
Hamley Field #1

Source (type of well) _____

Depth above

Date 1941 Depth 450 ft

WVF Woodhorne

Producing Interval _____

Water level _____ ft

Sampled after pumping _____

Flow _____ gpm

Pl. at well 1000

Appearance _____

Temp (°F) 75

Color 115.65

Note completed _____

Date of collection 5/20/58

Ignition Loss _____

Dissolved Solids _____

Subsidiary (none) 733

Residue at 280°C 742

Time per amp. test _____

Residue on CaSO₄ _____

H.C. Insoluble _____

% H₂SO₄ 50% 500 _____

Specific conductivity _____

(temperature at 25°C) 1170

at 9.5 cm

CO₂ (calc) = 2.6

alk. as CaCO₃ = 421

	gpm	gpm
SiO ₂		11
Fe		.01
Fe (total)		.02
Ca	0.89	1.8
Mg	.00	0
Na	12.37	2.8
K	12.37	2.8
Na + K		2.8
HCO ₃	7.96	4.8
CO ₃	.53	1.6
SO ₄	2.47	1.8
Cl	1.68	2.8
F	.02	1.6
NO ₃	.00	0

KEY PURCHASED

TEXAS WATER DEVELOPMENT BOARD

WELL RECORD

Aquifer WashburneField No. #392State Well No. 33-17-106Owner's Well No. #7County Dallas1. Location 1/4 1/4 Sec. Block Survey2. Owner U.S. Air Force Address Gerard, Prairie, Tex.Tenant Hensley Field Address Driller W. L. Myers Sons Address Dallas, Texas3. Elevation of July 1947 4.90 ft. above sea, determined by 10004. Drilled July 1947 Aug. Cable Tool Open5. Depth 417 ft. ft.6. Completion Open Hole, Straight Wall, Underreamed, Gravel Packed7. Type WSP Type Turbine8. Stages ft. ft. ft.9. Motor Fuel Elect ft. ft.10. Horse Power 100 ft. ft.11. Performance Tests Date Length of Test Note by 12. Static Level 322.0 ft. ft. ft.13. Water Level 322.0 ft. ft. ft.14. Plugged & Abandoned15. Plugged & Abandoned16. Plugged & Abandoned17. Plugged & Abandoned18. Plugged & Abandoned19. Plugged & Abandoned20. Plugged & Abandoned21. Plugged & Abandoned22. Plugged & Abandoned23. Plugged & Abandoned24. Plugged & Abandoned25. Plugged & Abandoned26. Plugged & Abandoned27. Plugged & Abandoned28. Plugged & Abandoned29. Plugged & Abandoned30. Plugged & Abandoned31. Plugged & Abandoned32. Plugged & Abandoned33. Plugged & Abandoned34. Plugged & Abandoned35. Plugged & Abandoned36. Plugged & Abandoned37. Plugged & Abandoned38. Plugged & Abandoned39. Plugged & Abandoned40. Plugged & Abandoned41. Plugged & Abandoned42. Plugged & Abandoned43. Plugged & Abandoned44. Plugged & Abandoned45. Plugged & Abandoned46. Plugged & Abandoned47. Plugged & Abandoned48. Plugged & Abandoned49. Plugged & Abandoned50. Plugged & Abandoned51. Plugged & Abandoned52. Plugged & Abandoned53. Plugged & Abandoned54. Plugged & Abandoned55. Plugged & Abandoned56. Plugged & Abandoned57. Plugged & Abandoned58. Plugged & Abandoned59. Plugged & Abandoned60. Plugged & Abandoned61. Plugged & Abandoned62. Plugged & Abandoned63. Plugged & Abandoned64. Plugged & Abandoned65. Plugged & Abandoned66. Plugged & Abandoned67. Plugged & Abandoned68. Plugged & Abandoned69. Plugged & Abandoned70. Plugged & Abandoned71. Plugged & Abandoned72. Plugged & Abandoned73. Plugged & Abandoned74. Plugged & Abandoned75. Plugged & Abandoned76. Plugged & Abandoned77. Plugged & Abandoned78. Plugged & Abandoned79. Plugged & Abandoned80. Plugged & Abandoned81. Plugged & Abandoned82. Plugged & Abandoned83. Plugged & Abandoned84. Plugged & Abandoned85. Plugged & Abandoned86. Plugged & Abandoned87. Plugged & Abandoned88. Plugged & Abandoned89. Plugged & Abandoned90. Plugged & Abandoned91. Plugged & Abandoned92. Plugged & Abandoned93. Plugged & Abandoned94. Plugged & Abandoned95. Plugged & Abandoned96. Plugged & Abandoned97. Plugged & Abandoned98. Plugged & Abandoned99. Plugged & Abandoned100. Plugged & Abandoned

WILLERS L. 7

- 0-13- Surface soil
- 19- SAND & GRAVEL
- 28- mixed CLAY
- 121- Shale
- 201- SAND
- 202- ROCK
- 264- Shale
- 269- BROWN SANDY Shale
- 315- WATER SALT
- 376- GRAY SANDY Shale
- 379- Lime
- 411- GRAY Shale
- 415- SANDY Lime
- 417- Shale

33-17-106

Typewrite (Black ribbon) or Print Plainly
 (not pencil or black ink)
 Do not use ball point pen

Texas Department of Health Laboratories
 1100 West 43rd Street
 Austin, Texas 78756

TOWN ONLY			
Organization No. _____	Lab No. <table border="1"><tr><td> </td><td> </td></tr></table>		
Work No. _____			

CHEMICAL WATER ANALYSIS REPORT

Send report to:

Data Collection and Evaluation Section
 Texas Department of Water Resources
 P.O. Box 13087
 Austin, Texas 78711

Analysis copied from
 Texas Department of
 Health Files

County

0	5	7
---	---	---

DallasState Well No.

3	3	1	7	1	0
---	---	---	---	---	---

Well No. _____

Date Collected

1	1	1	5	6	1
---	---	---	---	---	---

Owner U.S. NAVAL AIR STATIONSend copy to owner Sample No.

--

 By CSF

Address _____ Well Location _____

Data Drilled _____ Depth 417 ft. WBF _____Producing interval _____ Water level _____ ft. Sample depth

--	--	--

 ft.Sampled after pumping _____ hrs. Yield _____ GPM

--	--	--

 Temperature

--	--	--	--	--	--

 °FPoint of collection _____ Appearance ☐ clear ☐ turbid ☐ colored ☐ oil

Use _____ Remarks _____

(FOR LABORATORY USE ONLY)

CHEMICAL ANALYSIS

~~NOT FINISHED~~

Laboratory No. _____

Date Received 11-22-61Date Reported 11-22-61

	MG/L	ME/L																																
Silica . . . 00955 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
Calcium . . . 00910 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
Magnesium . . . 00920 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
Sodium . . . 00929 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
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<input type="checkbox"/> Potassium . 00937 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
<input type="checkbox"/> Manganese . 01055 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
<input type="checkbox"/> Boron . . . 01022 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
<input type="checkbox"/> Total Iron . 01045 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
<input type="checkbox"/> (other) _____ MG/L	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																

Specific Conductance (micro-mhos/cm²) 00096 1743Diluted Conductance (micro-mhos/cm²):

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☐ (see) will be analyzed if checked.

* The approximate equivalent in this analysis can be converted by
 multiplying the following by 0.49171 to an equivalent amount of
 calcium and the carbonate figure used in the computation of
 chemical analysis.
 * To report a pH of 10.0, the appropriate sample
 (not for use) Magnesium carbonate sample.

TDS 0148 1/10 04 07 65

	MG/L	ME/L																																
Carbonate . . . 00445 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
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Dissolved Solids (residue at 180° C) . . . 70300 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
Phosphoric Acid Alkalinity as CaCO ₃ . . . 00416 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
Total Alkalinity as CaCO ₃ . . . 00410 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
Total Hardness as CaCO ₃ . . . 00900 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
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Ammonia - N . . . 00810 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
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Nitrate - N . . . 00620 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																
Organic Nitrogen . . . 00905 . . .	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>																

Analyst _____ Checked By _____

Form GW-1

TEXAS BOARD OF WATER ENGINEERS
GROUND-WATER DIVISION

WELL SCHEDULE

Date 9/24, 1961 Field No. _____
Record by UG Office No. HR 231706
Source of data Frank W. Winkler

1. Location County Dallas
Map 2.2 mi. E. of center of Grand Prairie 2 Well
Survey located in building tract of HR 231705
2. Owner: A.E. All Force Address Grand Prairie, Tex.
Tenant Hendley Field #2 Address _____
Driller W. Myers & Sons Address Dallas, Tex.
3. Topography rolling prairie
4. Elevation 498.1 ft. at W. 1/4
5. Types Casing drilled, driven, bored, jetted, 19 42
6. Depth, ft. 451 ft. to base
7. Casing diam. 8 in. to base in. Type _____
Depth _____ ft. to base
8. Chief aquifer Kud From 222 ft. to 248 ft.
Character producing
9. Water levels 200 ft. at base 19 58 above _____
_____ which is _____ ft. above surface
_____ below
10. Pump Type T Capacity _____ gpm
Power Kind E Horsepower 15
11. Yield: Flow _____ gpm, Pump 100 gpm, Mean 100 Est. _____
Drawdown _____ ft. after _____ hours pumping _____ gpm
12. Use: Dom. Stock 10 RR, Ind., Agr., Irr., _____
Adequacy, permanence _____
13. Quality _____
Temp. _____ °F Sample 1958
14. Log Yes
15. Remarks see above for more info
well # 2

Well No. HR3317106 ANALYTICAL STATEMENT COUNTY Dallas

Location US Air Force Date of collection 8/20/58
Wheeler Field #2
 Source (type of well) Open at Ground Surface
 Depth 1942 ft. 45.1 ft.
 WSP 14.5 ft.
 Producing Interval 398-448
 Water level 300 ft.
 Sampled after pumping Yes
 Visc. 1.00 cP
 pH of well well
 Remarks PS
 Temp. (°F) 65
 Chemical USGS
 Date completed

Estimated Total Solids 208
 Residue at 100°C 237
 TSS per acre foot 3
 Solids as CaCO₃ 0
 H.C. hardness 0
 pH at 100°C 7.5
 Specific conductance 1130
 Conductance at 25°C 1130
 pH Blacked

CO₂ rel. L.Z.
 total alk. as
 CaCO₃ = 4.4

	mg/l	ppm
SiO ₂		11
Fe		0.6
Fe (total)		2.5
Cu	0.06	1.2
Mg	0.05	1.0
Mn	12.16	2.80
K		
Na + K		
NO ₂	8.36	310 (ppm)
NO ₃	5.3	161
NO ₂ + NO ₃	13.66	13.3
Cl	1.68	2.4
F	0.00	1.8
SO ₄	1.00	0.0

KEY PURCHASER

Appendix E
Soil Boring Logs



BORING LOG for B-1

(Page 1 of 1)

Former Delfasco Forge Facility
114 NE 28th Street
Grand Prairie, TexasDate Completed 9/4/02
Drilling Method Direct Push Rig
Drilling Company MagnaCore, Inc
Sampling Method 4' DPT Tube
Ensafe Rep E MearsLogged By E Mears
Boring Depth 40 feet

Project Number: 7540-005

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Water Levels
0						Dark brown silty CLAY, slight moist, no odor	
2	07		DELSSB0104	CL			
4							
6							
8							
10							

TD = 4' Boring plugged with bentonite

08-13-2006 r:\PROJECTS\Delfasco Forge\Grand Prairie\APAR\borings and wells\Boring Logs\B1 BOR

000000000001380



BORING LOG for B-2

(Page 1 of 1)

Former Delfasco Forge Facility
114 NE 28th Street
Grand Prairie, Texas

Date Completed 9/4/02
Drilling Method Direct Push Rig
Drilling Company MagnaCore, Inc
Sampling Method 4' DPT Tube
Ensafe Rep E Mears

Logged By E Mears
Boring Depth 23 feet

Project Number: 7540-005

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Water Levels
0						Concrete foundation.	
				SC		Tan Sand, loose, foundation backfill	
						Black asphalt, hard, dry	
2	84			CL		Dark brown silty CLAY with limestone gravels, stiff, slightly moist, no odor	
						Dark brown silty CLAY, stiff, slight moist, minor chalk nodules (<5%)	
4							
6	90.7		DELSSB0208				
8				CL		Transition color change to light brown-brown-orange, silty, sandy CLAY, stiff, slight moist Increasing LS/chalk nodules size (globular) Moist, no odor	
10	74					Decreasing chalk nodules	
12	43.4					Brown-orange silty-sandy CLAY, stiff, moist (not wet), with large globular chalk nodules	
14							
16	35.9					Light brown-orange SAND with clay, loose, moist to dry, no odor	
18	47.9						
20				SC		boring hole collapsed in at 20-feet	
22							
24						TD = 24' Boring plugged with bentonite.	

06-13-2006 - PROJECTS\Delfasco Forge\Grand Prairie\APAR\borings and wells\Boring Logs\B2 BOR

000000000001381



BORING LOG for B-3

(Page 1 of 1)

Former Delfasco Forge Facility
114 NE 28th Street
Grand Prairie, Texas

Date Completed 9/4/02
Drilling Method Direct Push Rig
Drilling Company MagnaCore, Inc
Sampling Method 4' DPT Tube
Ensafe Rep E Mears

Logged By E Mears
Boring Depth 25.5 feet

Project Number 7540-005

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Water Levels
0						Concrete	
2	135		DELSSB0304	CL		Dark brown silty CLAY, stiff, slight moist, minor chalk nodules, strong petroleum odor	
4				CL		No petroleum odor, dirty organic odor	
6	42						
8	94			CL		Brown, dark gray, orange, gray silty (mottled coloring) CLAY, stiff, slight moist to dry, oxidation nodules (black-rusty, brittle (10%))	
10				CL			
12	239						
14	1087			CL		Brown-orange silty-sandy CLAY, stiff, moist (not wet), with large globular chalk nodules	
16							
18							
20						boring hole collapsed in at 20-feet, temporary well installed to collect groundwater sample	
22							
24							
26						TD = 25.5'. Boring plugged with bentonite	

06-13-2010 \\PROJECTS\Delfasco Forge\Grand Prairie\APAR\borings and wells\Boring Logs\B3 BOR

000000000001382



BORING LOG for B-4

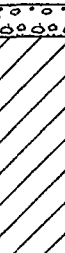
(Page 1 of 2)

Former Delfasco Forge Facility
114 NE 28th Street
Grand Prairie, Texas

Date Completed 9/4/02
Drilling Method Direct Push Rig
Drilling Company MagnaCore, Inc
Sampling Method 4" DPT Tube
Ensafe Rep E Mears

Logged By E. Mears
Boring Depth 30 feet

Project Number 7540-005

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Water Levels
0						Concrete	
	35			CL		Dark brown silty CLAY, stiff, dry, no odor	
5						Not sampled from 4 to 30 feet	
10							
15							
20							

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BORING LOG for B-4

(Page 2 of 2)

Former Delfasco Forge Facility
114 NE 28th Street
Grand Prairie, Texas

Date Completed 9/4/02
Drilling Method Direct Push Rig
Drilling Company MagnaCore, Inc
Sampling Method 4' DPT Tube
Ensafe Rep E Mears

Logged By E. Mears
Boring Depth 30 feet

Project Number 7540-005

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Water Levels
20							
25						Groundwater encountered at 24.0 feet	▼
30						TD = 30' Boring plugged with bentonite.	
35							
40							

06-13-2006 \PROJECTS\Delfasco Forge\Grand Prairie\APAR\borings and wells\Boring Logs\B4 BOR



BORING LOG for SB-12

(Page 1 of 1)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	06/28/04	Logged By	Alycia Wieland
Drilling Method	Direct Push Technologies	Boring Depth	230 feet
Drilling Company	MagnaCore Environmental Drilling		
Sampling Method	Shelby Tube with plastic liners		
Ensafe Rep	Alycia Wieland and Holly Siggeiko		

Project Number 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0	0					CLAY, hard to stiff, no odor, dry, very drk brown, fat, samll pebbles, plastic
2.7		27%		CH		some iron oxide inclusions ~10%
5	145		DELSSB1206			color change to brown at 4 feet
	0	100%		CH-SC		SANDY CLAY, oragne yellow, soft, well-graded fine grained sand.
	0					calcareous deposit ~0 1" thick, white, hard
10	0		DELSSB1212			SAND, silty, orange-yellow mottled with light brown, some clay present, damp
	0	100%				
	0			SM		
15		100%				some iron stained clay stringers
	0		DELSSB1220			at 20 feet silty sand, very soft, well graded fine grains, ~0 2" thick.
20	0	100%				very coarse sands below, well cemented with iron oxide soils, ~0.5" thick.
	0	100%		CH-SC		CLAY, sandy, stiff, dry, no odor, orange-yellow
						sand increasing with depth
				SC-SM		CLAYEY SILTY SAND, damp, well graded fine sand grains
25						

06-13-2004 4:00 PM PROJECTSDelfasco ForgeGrand PrairieOffsite InvestigationWell LogsSB-11 BOR



BORING LOG for SB-12

(Page 1 of 1)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed 06/28/04 Logged By Alycia Wieland
Drilling Method Direct Push Technologies Boring Depth 230 feet
Drilling Company MagnaCore Environmental Drilling
Sampling Method Shelby Tube with plastic liners
Ensafe Rep Alycia Wieland and Holly Siggelko

Project Number: 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0						CONCRETE, ~0.6 inches thick
0						CLAY, wet, dark gray, some dark brown, very soft, strong petroleum odor
27		27%				
5						
145			DELSSB1206	CH		~1' black oily residue, semi-liquid, strong petroleum odor
0		100%				color change to light gray mottled with yellowish orange, sandy, dry, stiff, plastic
0						
10						
0		100%	DELSSB1212	CH-SC		SANDY CLAY, light gray/olive green, iron oxide inclusions, dark reddish brown
0						
15						
40		100%		CH		CLAY, SAA
0						
20		100%	DELSSB1220	CH-SC		SANDY CLAY, dark orange brown, soft, well sorted sand, damp
0						
0		100%		SM-SW		SILTY SAND and CLAY intermittent, sand increasing with depth, yellowish orange
25						

TOTAL DEPTH 230 feet below ground surface. No groundwater was encountered. Samples collected at 6 feet, 12 feet, and 20 feet were analyzed for VOCs (Method 5035) and TPH (TX 1005)

06-13-2006 PROJECTS\Delfasco Forge\Grand Prairie\APAR\borings and wells\Boring Logs\SB-12 BOR



BORING LOG for SB-13

(Page 1 of 1)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
Ensafe Rep

06/28/04
Direct Push Technologies
MagnaCore Environmental Drilling
Shelby Tube with plastic liners
Alycia Wieland and Holly Siggelko

Logged By
Boring Depth

Alycia Wieland
20.0 feet

Project Number: 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0						ROCKS/CONCRETE RUBBLE, ~0.6 inches thick
0	0					CLAY, dark gray, plastic, dry
0		100%	DELSSB1304	CH		Organic/petroleum odor 1 inch zone of coarse sand Clay lightening with depth
5	0					
0		100%				SANDY CLAY, light brown mottled with light gray, plastic, dry, no odor, becoming sandier with depth, organic inclusions
10	0			CH-SC		Predominantly yellowish orange with light gray
		100%	DELSSB1312			
						CLAYEY SAND, yellowish orange, dry, well sorted, soft to stiff
15		100%		SC		
						SAND, yellowish orange, soft, well sorted, damp
		100%		SW		
20						
						TOTAL DEPTH 20.0 feet below ground surface. No groundwater was encountered. Samples collected at 4 feet and 12 feet were analyzed for VOCs (Method 5035) and TPH (TX 1005)
25						

06-13-2006 PROJECT: Delfasco Forge (Grand Prairie) BORING LOGS: SB-13 BOR



BORING LOG for SB-14

(Page 1 of 1)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	06/28/04	Logged By	Alycia Wieland
Drilling Method	Direct Push Technologies	Boring Depth	20.0 feet
Drilling Company	MagnaCore Environmental Drilling		
Sampling Method	Shelby Tube with plastic liners		
Ensafe Rep	Alycia Wieland and Holly Siggelko		

Project Number: 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0	2					CONCRETE, ~0.6 inches thick
1.8						CLAY, olive gray, dry, hard to stiff, plastic, small petroleum smell
6.8		100%	DELSSB1404	CH		Small pebbles, yellowish orange mottled with gray, gray lightening with depth
19						Yellowish orange, black organic inclusions
27		100%				
42						
53		100%		CH-SC		SANDY CLAY, mottled gray and yellowish orange, small calcareous deposits
77						
57						With silt
49		100%				
15						
101		100%	DELSSB1417	SW		SAND, silty, yellowish orange, soft, well sorted, damp
22						
90						
58		100%				
20						
25						

TOTAL DEPTH 20.0 feet below ground surface. No groundwater was encountered. Sample collected at 4 feet was analyzed for VOCs (Method 5035) and TPH (TX 1005). Sample collected at 17 feet was analyzed for VOCs (Method 5035) only.

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BORING LOG for SB-15

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	06/28/04	Logged By	Alycia Wieland
Drilling Method	Direct Push Technologies	Boring Depth	20 0 feet
Drilling Company	MagnaCore Environmental Drilling		
Sampling Method	Shelby Tube with plastic liners		
Ensafe Rep	Alycia Wieland and Holly Siggeiko		

Project Number 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0	0					CONCRETE, ~0 6 inches thick
0						CLAY, dark gray, hard, plastic, dry, no odor
0						
0						
5	0	100%	DELSSB1504	CH		Olive green in color
0						
0		100%				Light gray in color, some yellowish orange
10	0					SANDY CLAY, light gray mottled with yellowish orange, iron or magnesium oxide deposits, sand increasing with depth
21	21	100%	DELSSB1511	CH-SC		
21						
5						
12		100%				
15	0			SC		CLAYEY SAND, yellowish orange, very plastic, dry to damp
0		100%				
0						
20	0	100%		SW		SAND, yellowish orange, well sorted, soft, dry
<p>TOTAL DEPTH 20 0 feet below ground surface. No groundwater was encountered. Sample collected at 4 feet was analyzed for VOCs (Method 5035) and TPH (TX 1005). Sample collected at 11 feet was analyzed for VOCs (Method 5035) only</p>						
25						

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BORING LOG for SB-16

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed 06/28/04
Drilling Method Direct Push Technologies
Drilling Company MagnaCore Environmental Drilling
Sampling Method Shelby Tube with plastic liners
Ensafe Rep Alycia Wieland and Holly Siggelko

Logged By Alycia Wieland
Boring Depth 20.0 feet

Project Number 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0	0					CONCRETE, ~0.6 inches thick
0						CLAY, dark gray, hard, plastic, dry, no odor
0						
0						
0						
0	100%		DELSSB1604			Olive green in color
5						
0				CH		
4						Brown in color, small pebbles
7	100%					Yellowish orange mottled with light gray in color, some sand
5						
10						
43	100%					
1						SANDY CLAY, yellowish orange mottled with light gray, damp
31						
53	100%		DELSSB1614	CH-SC		
1						
15						
15						CLAYEY SAND
56	100%			SC		
31						
41						
20	100%		DELSSB1620	SW		SAND, yellowish orange, well sorted, soft
20						
						TOTAL DEPTH 20.0 feet below ground surface No groundwater was encountered Sample collected at 4 feet was analyzed for VOCs (Method 5035) and TPH (TX 1005). Samples collected at 14 feet and 20 feet were analyzed for VOCs (Method 5035) only
25						

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BORING LOG for SB-17

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	06/29/04	Logged By	Alycia Wieland
Drilling Method	Direct Push Technologies	Boring Depth	20 0 feet
Drilling Company	MagnaCore Environmental Drilling		
Sampling Method	Shelby Tube with plastic liners		
Ensafe Rep	Alycia Wieland and Holly Siggelko		

Project Number 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0	0					CLAY, dark gray, plastic, stiff, no odor, dry (damp from water dropping from surface), some grass roots
0	0					
0	0	100%	DELSSB1704	CH		
5	0					Olive gray in color, some iron oxide or magnesium oxide stained soils
0	0	100%				
7	7					SANDY CLAY, light gray mottled with yellowish orange, sand increasing with depth, iron or magnesium deposits (black in color and circular) ~10%
10	6					
4	4	100%		CH-SC		
26	26		DELSSB1714			
15	16					
8	8	100%		SC		CLAYEY SAND, yellowish orange
26	26					
18	18					SAND, yellowish orange, well sorted, moist
68	68	100%		SW		
20						
<p>TOTAL DEPTH 20 0 feet below ground surface No groundwater was encountered Sample collected at 4 feet was analyzed for VOCs (Method 5035) and TPH (TX 1005). Sample collected at 14 feet was analyzed for VOCs (Method 5035) only.</p>						
25						

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BORING LOG for SB-18

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	06/29/04	Logged By	Alycia Wieland
Drilling Method	Direct Push Technologies	Boring Depth	20.0 feet
Drilling Company	MagnaCore Environmental Drilling		
Sampling Method	Shelby Tube with plastic liners		
Ensafe Rep	Alycia Wieland and Holly Siggelko		

Project Number: 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0						CLAY, dark gray, soft, plastic, no odor, dry, base material, some grass roots, organic deposits
0						
0						
0						
0		75%	DELSB1804	CH		
5						Olive gray in color, rootlets, some iron oxide or magnesium oxide stained soils
0						
		100%				Brown with yellowish orange, some sand
10						2 inch seam of coarse gravel
0						SANDY CLAY, yellowish orange mottled with light gray, sand increasing with depth, iron or magnesium deposits
4		83%		CH-SC		
2						
0						
9						1/2 inch white calcium deposit
15		100%				
15						SAND, yellowish orange, well sorted, damp to moist
12				SW		
20						
38		77%				
20						

TOTAL DEPTH 20.0 feet below ground surface. No groundwater was encountered. Sample collected at 4 feet was analyzed for VOCs (Method 5035) and TPH (TX 1005)

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BORING LOG for SB-19

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
Ensafe Rep

06/29/04
Direct Push Technologies
MagnaCore Environmental Drilling
Shelby Tube with plastic liners
Alycia Wieland and Holly Siggelko

Logged By
Boring Depth

Alycia Wieland and Holly Siggelko
20.0 feet

Project Number 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0	0					GRASS, fill material
0						CLAY, dark gray, moist, soft, plastic, no odor
0		100%	DELSSB1904			
5				CH		
0						
0		83%				
0						Light gray mottled with yellowish orange in color
10						
0						
3		75%		CH-SC		SANDY CLAY, yellowish orange mottled with light gray, hard, damp
2						
4						4 inch iron or magnesium deposit
13						
15						
110		100%		SC		CLAYEY SAND, yellowish orange, very soft, moist, plastic
280						
224						
285		94%	DELSSB1920	SW		SAND, yellowish orange, well sorted, damp
20						
TOTAL DEPTH 20.0 feet below ground surface. No groundwater was encountered. Sample collected at 4 feet was analyzed for VOCs (Method 5035), cadmium, and lead. Sample collected at 20 feet was analyzed for VOCs (Method 5035) only.						
25						

06-13-2006 PROJECTS\Delfasco Forge\Grand Prairie\Boring Logs\SB-19 BOR



BORING LOG for SB-20

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
Ensafe Rep

06/29/04
Direct Push Technologies
MagnaCore Environmental Drilling
Shelby Tube with plastic liners
Alycia Wieland and Holly Siggelko

Logged By
Boring Depth

Alycia Wieland and Holly Siggelko
20.0 feet

Project Number 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0	40					Mud fill material, rock fill material, gravel fill material
34						CLAY, black, slightly brittle, dry, petroleum odor
173			DELSSB2003			
24		100%		CH		
28						Dark gray in color, slightly plastic, damp, no odor
5			DELSSB2007			
28		100%		CH-SC		SANDY CLAY, light gray mottled with yellowish orange, plastic, moist
39						
55						
10				SC		CLAYEY SAND, yellowish orange mottled with light gray, dry, hard, brittle
120						
70		83%				
46				SW		SAND, yellowish orange, well sorted, dry
58						
51						
15						
26		83%		CH-SC		SANDY CLAY, yellowish orange, moist, plastic
114			DELSSB2018			
544						Black staining
343			DELCSB2018			
178		100%	DELSSB2020	CH		CLAY, yellowish orange, wet, plastic, hard
20						
TOTAL DEPTH 20.0 feet below ground surface No groundwater was encountered. Sample collected at 3 feet was analyzed for VOCs (Method 5035) and TPH (TX 1005). Sample collected at 7 feet was analyzed for TPH (TX 1005) only. Samples collected at 18 feet and at 20 feet analyzed for VOCs (Method 5035) only						
25						

06-13-2006 PROJECT: Delfasco Forge (Grand Prairie) BORINGS and wells BORING LOGS SB-20 BOR



BORING LOG for SB-21

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	06/29/04	Logged By	Alycia Wieland and Holly Siggelko
Drilling Method	Direct Push Technologies	Boring Depth	20 0 feet
Drilling Company	MagnaCore Environmental Drilling		
Sampling Method	Shelby Tube with plastic liners		
Ensafe Rep	Alycia Wieland and Holly Siggelko		

Project Number 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0	0					Clay fill material, gravel fill material
0						CLAY, black, moist, plastic, no odor
0		63%	DELSSB2104			
5				CH		Dark gray in color
0		100%				Light gray mottled with yellowish orange in color, iron or magnesium oxide deposits (black, hard, circular)
0						
0		63%		CH-SC		SANDY CLAY, yellowish orange, hard, slightly plastic
0				CH		CLAY, light gray with some sandy clay
15		73%		CH-SC		SANDY CLAY, yellowish orange, very soft, plastic, moist
3						
26				SC		CLAYEY SAND, yellowish orange, soft, plastic, moist
10						
71						
34		100%				
20						
TOTAL DEPTH 20 0 feet below ground surface. No groundwater was encountered. Sample collected at 4 feet was analyzed for VOCs (Method 5035) only.						
25						

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BORING LOG for SB-22

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
Ensafe Rep

06/29/04
Direct Push Technologies
MagnaCore Environmental Drilling
Shelby Tube with plastic liners
Alycia Wieland and Holly Siggelko

Logged By
Boring Depth

Alycia Wieland
20.0 feet

Project Number 7540-011

Depth in Feet	PID ppm	% Recovery	SAMPLE feet	USCS	GRAPHIC	DESCRIPTION
0	70		DELSSB2201			Clay fill material, gravel fill material
44						CLAY, dark gray, dry, plastic, no odor, stiff to soft, iron/organic reddish brown inclusions
56	88%					Brown/olive in color with calcium deposits 1/2 inch in diameter ~5%
34				CH		
90						
25						
7	94%					Yellowish orange in color, sand increasing with depth
29						
10						Calcium deposit 1 inch in diameter
18						
84	83%					SANDY CLAY, yellowish orange, well sorted, some calcium deposits
116				CH-SC		
175			DELSSB2215			
15						
178	83%					SAND, yellowish orange, soft, well sorted, medium grains, manganese deposits
156				SW		
67						
107	100%		DELSSB2220	CH		CLAY, yellowish orange, plastic, dry, no odor
20						
						TOTAL DEPTH 20.0 feet below ground surface. No groundwater was encountered. Samples collected at 1 foot, 15 feet, and 20 feet were analyzed for VOCs (Method 5035) only
25						

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BORING LOG for SB-23

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
EnSafe Rep

11/21/2005
Direct Push Technology
Ground Water Monitoring
4 foot Shelby Tube with Plastic Liner
Kerry Hill

Logged By
Boring Depth

Kerry Hill
10 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0						Surface conditions Concrete, approximately 6 inches
23						
23			DELSSB2302			At 0.5', Black to dark grey clay with minor silt and calcareous nodules 1mm to 3mm increasing in size and frequency with depth
27						
19				CH		
36						
5						
36						
31						
36						
36				CH		At 7.5', Brown to yellowish brown clay with very small grey mottling with depth
40			DELSSB2310			
10						
						Total Depth 10 feet below ground surface
15						

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BORING LOG for SB-24

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Delfasco Forge
Offsite Investigation
Grand Prairie, TexasDate Completed 11/22/2005
Drilling Method Direct Push Technology
Drilling Company Ground Water Monitoring
Sampling Method 4 foot Shelby Tube with Plastic Liner
EnSafe Rep Kerry HillLogged By Kerry Hill
Boring Depth 15 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0						Surface conditions: Gravel parking lot with sand base to 1 25'
11.2						
15.1		X	DELSSB2402			At 1 25', Dark brown silty, fat clay with some calcareous nodules 1mm to 3mm, increasing in frequency with depth
14.2						Grades to lighter brown clay, with increasing fine to very fine sand with depth
15.1				CH		
17.2						
5						
15.5						
17.2						At 6 0', Mixed brown sandy clay with dark brown silty clay
18.5				CL		
15.9						At 8 5', Calcareous layer, approximately 2 inches thick
15.5		X	DELSSB2410			At 9 0', Yellowish brown silty, clayey fine sands
17.6						
18.0						
17.6				ML/SM		
18.0						
15.1						
15						Total Depth 15 feet below ground surface.

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BORING LOG for SB-25

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
EnSafe Rep

11/22/2005
Direct Push Technology
Ground Water Monitoring
4 foot Shelby Tube with Plastic Liner
Kerry Hill

Logged By
Boring Depth

Kerry Hill
15 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0						Surface conditions: Gravel and broken concrete surface.
17.2						
23.1		X	DELSSB2502			At 1.0', Dark brown to grey silty clay, fat, with calcareous nodules increasing in frequency with depth.
24.0						
20.7				CH		
23.6						Dark grey coloring decreases with depth
27.4						
28.7						
29.5				CL		At 6.5', Grades to mixed dark brown to grey clay and brown silty and very fine sandy clay
23.6						
24.8		X	DELSSB2510			At 8.0', Yellowish brown and light grey mottled silty sand and sandy silt
25.3						Unit is variably sandier in 2" to 4" thick intervals
27.8				ML/SM		
21.8						
22.7						
23.1						
15						Total Depth 15 feet below ground surface

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BORING LOG for SB-26

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
EnSafe Rep

11/22/2005
Direct Push Technology
Ground Water Monitoring
4 foot Shelby Tube with Plastic Liner
Kerry Hill

Logged By
Boring Depth

Kerry Hill
15 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0	33.4					Surface conditions Concrete from 0 to 5 inches, base material from 5-8 inches.
31.6			DELSB2602	CH		At 0.8', Dark grey to black slightly silty clay, fat, with calcareous nodules 1mm to 3mm increasing in frequency with depth
34.6						
36.8						
35.1						
5	38.9			CL		At 5.0', Grades to brown to greyish brown silty clay mixed with yellowish brown silty clay Grades to brown with depth Sand content increases with depth.
40.6						
46.1						
64.0						
64.2			DELSB2810	ML		At 8.5', Mottled yellowish brown sandy silt and silty sand Clay intervals up to 4 inches throughout
54.2						
65.3						
80.2				SM		At 11.0', Yellowish brown silty fine sand
62.1						
104.2			DELSB2615			
15						Total Depth 15 feet below ground surface.

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BORING LOG for SB-27

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Delfasco Forge
Offsite Investigation
Grand Prairie, TexasDate Completed
Drilling Method
Drilling Company
Sampling Method
EnSafe Rep11/21/2005
Direct Push Technology
Ground Water Monitoring
4 foot Shelby Tube with Plastic Liner
Kerry HillLogged By
Boring DepthKerry Hill
15 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0						Surface conditions. Soil, sandy brown silt and clay
139.7						At 0.5', Dark brown to dark grey slightly silty clay.
55.1		X	DELSSB2702	CH		
30.4						
56.3						
63.1						
5						
63.6						
81.9						At 6.0', Grades to brown to yellowish brown silty clay with fine to very fine sand, some grey mottling
111.8		X	DELSSB2708			
97.6						
62.9		X	DELSSB2710	CL/ML		
10						
55.9						
97.2						
96.3						
78.9						
91.3				SM		At 14.0', yellowish brown silt and fine sand.
15						
Total Depth 15 feet below ground surface						

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000000000001401



BORING LOG for SB-29

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
EnSafe Rep.

11/21/2005
Direct Push Technology
Ground Water Monitoring
4 foot Shelby Tube with Plastic Liner
Kerry Hill

Logged By
Boring Depth

Kerry Hill
15 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0						Surface conditions Grass on brown sandy silt and clay
16.8						
27.8		X	DELSSB2902			At 0.5', Dark grey to black silty clay
29.1						
35.1				CH		
35.7						
42.3						
43.6						At 6.0', Grades to brown to yellowish brown silty clay with very fine sand, some light grey mottling.
48.7						
28.7						
31.2		X	DELSSB2910			
30.4				CL/ML		
41.0						
41.9						
41.9						
48.4		X	DELSSB2915			
15						Total Depth 15 feet below ground surface.

06-13-2006 y:\PROJECTS\Delfasco Forge\Grand Prairie\Offsite Investigation\Well Logs\SB-29 BOR



BORING LOG for SB-30

(Page 1 of 1)

Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
EnSafe Rep

11/21/2005
Direct Push Technology
Ground Water Monitoring
4 foot Shelby Tube with Plastic Lner
Kerry Hill

Logged By
Boring Depth

Kerry Hill
10 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0						Surface conditions: Grass on brown sandy silt and clay soil.
12.5						
19.3			DELSSB3002	CH		At 0.5', Dark grey to black clay with minor silt and some calcareous nodules 1mm to 3mm
25.8						
32.3						
29.5						
5						
36.8						At 5.5', Grades to mixed brownish black clay and silty clay.
37.6				CL		At 6.0', Iron concretions.
43.1			DELSSB3008			
19.8						
33.4			DELSSB3010	CL/ML		At 7.5', Greyish brown to yellowish brown clay with silts and fine sands.
10						Total Depth 10 feet below ground surface
15						

06-13-2006 \\PROJECTS\Delfasco Forge\Grand Prairie\Offsite Investigation\Well Logs\SB-30 BOR



BORING LOG for SB-31

(Page 1 of 1)

Delfasco Forge
Offsite Investigation
Grand Prairie, TexasDate Completed
Drilling Method
Drilling Company
Sampling Method
EnSafe Rep.11/21/2005
Direct Push Technology
Ground Water Monitoring
4 foot Shelby Tube with Plastic Liner
Kerry HillLogged By
Boring DepthKerry Hill
10 feet

Project Number. 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0	0 6					Surface conditions. Grassy area with gravel and sand, approximately 10 inches.
21 0			DELSSB3102			At 10.0", Dark grey to black clay with minor silt
27 8						
26 1						
24 8				CH		
24 8						
30 8						
41 0						
49 9						
52 9			DELSSB3110	CL		At 7 5', Brown to yellowish brown silty clay, increasing very fine sand content with depth
10						Total Depth 10 feet below ground surface.
						Note: Empty bag = 20 6 ppm on OVM
15						

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BORING LOG for SB-32

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/21/2005
Drilling Method Direct Push Technology
Drilling Company Ground Water Monitorng
Sampling Method 4 foot Shelby Tube with Plastic Liner
EnSafe Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 10 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0						Surface conditions: Grass on brown sandy silt and clay soil
11.2						
15.1			DELSSB3202			At 0.5', Dark brown to dark grey silty clay with some calcareous nodules 1mm to 3 mm
14.6						
15.1				CH		
10.8						
5						
13.8						
14.6						At 6.0', Brown to yellowish brown clay with silt and very fine sand
14.6						
13.8				CL		
15.1			DELSSB3210			At 8.5', calcium carbonate zone, approximately one foot in thickness
10						Total Depth 10 feet below ground surface.
15						

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BORING LOG for SB-33

(Page 1 of 1)

Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed : 11/21/2005
Drilling Method : Direct Push Technology
Drilling Company : Ground Water Monitoring
Sampling Method : 4 foot Shelby Tube with Plastic Liner
EnSafe Rep : Kerry Hill

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0						Surface conditions. Grass on brown sandy silt and clay soil.
15.9						
15.1			DELSSB3302	CL		At 0.5', Brown to grey sandy clay with some calcareous nodules 1mm to 1 cm.
13.8						
12.1				CH		At 1.5', Dark brown to grey silty clay with some calcareous nodules 1mm to 3 mm
12.9						
12.9						
12.5						
13.4				CL/ML		At 6.0', Brown to yellowish brown clay with increasing silt and very fine sand with depth
13.1						
8.3			DELSSB3310			At 8.5', Calcium carbonate zone, approximately 2 inches thick
10						
Total Depth 10 feet below ground surface.						
15						

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BORING LOG for SB-34

(Page 1 of 1)

Delfasco Forge
Offsite Investigation
Grand Prairie, TexasDate Completed 11/21/2005
Drilling Method Direct Push Technology
Drilling Company Ground Water Monitoring
Sampling Method 4 foot Shelby Tube with Plastic Liner
EnSafe Rep Kerry HillLogged By Kerry Hill
Boring Depth 10 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0						Surface conditions: Gravel parking lot to 4 inches, with only base material to 1 foot.
27.4						
8.7			DELSSB3402			At 1' 0", Dark grey to black clay with minor silt
8.2						
7.8				CH		
10.4						
5						
10.0						
9.4						
11.2						At 7' 0", tan to yellowish brown clay
9.5				CH		
10.4			DELSSB3410			
10						
						Total Depth 10 feet below ground surface.
15						

06-13-2006 g:\PROJECTS\Delfasco Forge\Grand Prairie\Offsite Investigation\Well Logs\SB-34 BOR

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BORING LOG for MW-01

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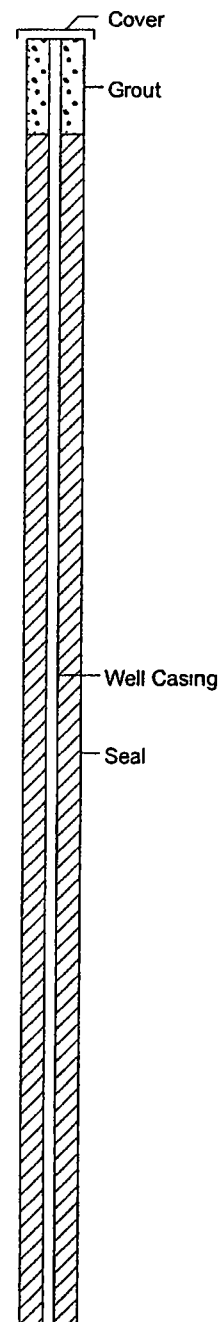
Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	09/22/03	Logged By	Alycia Wieland
Drilling Method	DPT Rig with HSA Overdri	Boring Depth	64.0 feet
Drilling Company	Strata Core	Well Depth	64.0 feet
Sampling Method	Shelby Tube w/ Plastic Linear	Well Riser	0-54 feet
Ensafe Rep.	Alycia Wieland	Well Screen	54-64 feet

Project Number: 7540-009

Well MW-01
Elev.. 490.81

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0	0		DELSMW0102			Concrete
	0					Concrete base fill material
	0					Clay, dark gray, dry, no odor, medium plasticity
	0					
	0					
	0					
5	0			CL		
	0					
	0					
	0					gradual color change to dark brown, with sand
	0					
10	5			CL		Sandy Clay, calcareous inclusion to 12 feet, stiff, subrounded to rounded sand grains, fine to medium size grains
	0					
	0					
	0			SC		Clayey Sand, brown to light brown, damp at 12 feet, sand content increasing with depth
	0					
15	0					
	32			SW-SP		Sand, crumbly, fine grains, light brown, dry
	0					
	0			SC		Clayey Sand, same as above, clay content increasing with depth
	0					
	0					
	0					
20	0					



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BORING LOG for MW-01

(Page 2 of 4)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
Ensafe Rep

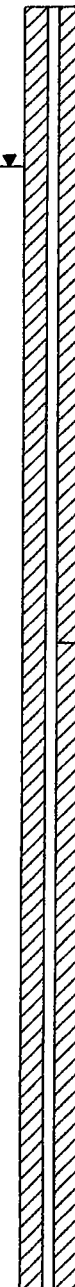
09/22/03
DPT Rig with HSA Overdrill
Strata Core
Shelby Tube w/ Plastic Linear
Alycia Wieland

Logged By
Boring Depth
Well Depth
Well Riser
Well Screen
Alycia Wieland
64.0 feet
64.0 feet
0-54 feet
54-64 feet

Project Number 7540-009

Well MW-01
Elev. 490.81

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
20	0		DELSMW0123	SC		Sand, same as above
	0					
	0					
	0					
	0			SW-SP		wet at 23.5 feet
	0					
25	0					
	0					with clay at 26.5 feet
	0			CL		Sandy Clay, plastic, no odor, soft to stiff
	0					
	0		DELSMW0123			Sand, same as above, with silt
	0					
	0					
	0					
	0			SM		
	0					
	0					
	0					
	0					
	0					
30	0		DELSMW0123			
	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0		DELSMW0123	CL-SM		Silty Sandy Clay, highly plastic, no odor, moist
	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0		DELSMW0123	SW		Sand, same as above
	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0					
40	0					



Well Casing
Seal

06-13-2006 - rOBJECTS\Delfasco Forge\Grand Prairie\Boring Logs\MW-01 BOR

BORING LOG for MW-01

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
Ensafe Rep

09/22/03

DPT Rig with HSA Overdrill

Strata Core

Shelby Tube w/ Plastic Linear

Alycia Wieland

Logged By

Boring Depth

Well Depth

Well Riser

Well Screen

Alycia Wieland

64.0 feet

64 0 feet

. 0-54 feet

54-64 feet

Project Number: 7540-009

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
40	0					
	0					
	0					
	0					
	0					
45	0			SW		
	0					with clay from 45 5 to 46 feet (wet)
	0					
	0					
	0					
	0					
	0					
	0					
50	0			CL		Clayey, stiff, laminate, some gray mottled with brown, no odor (Weathered Eagle Ford Shale)
	0					Sand, same as above
	0					
	0					
	0					
	0					
55	0			SW-SP		
	0					
	0					
	0					
	0					
	0					
	0					
	0					
60	0					

Well MW-01
Elev - 490.81

Seal

Well Casing

Sand Pack

Screen

06-13-2006 g:\PROJECTS\Defasco Forge\Grand Prairie\APAR\borings and wells\Boring Logs\MW-01 BOR

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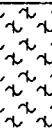
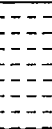
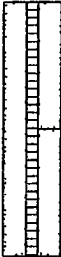
BORING LOG for MW-01

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	09/22/03	Logged By	Alycia Wieland
Drilling Method	DPT Rig with HSA Overdrill	Boring Depth	64 0 feet
Drilling Company	Strata Core	Well Depth	64 0 feet
Sampling Method	Shelby Tube w/ Plastic Linear	Well Riser	0-54 feet
Ensafe Rep	Alycia Wieland	Well Screen	54-64 feet

Project Number: 7540-009

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-01 Elev 490 81	
60						Weathered Eagle Ford Shale, stiff to hard, clay like, gray in color, no odor, dry		
				SH		Eagle Ford Shale	 <div>Sand Pack Screen</div>	
65	Probe Refusal at 60 feet, Set monitor well at 64 feet, Groundwater encountered at 23 5 feet, Top of Shale at 62 feet							
70								
75								
80								

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BORING LOG for MW-02

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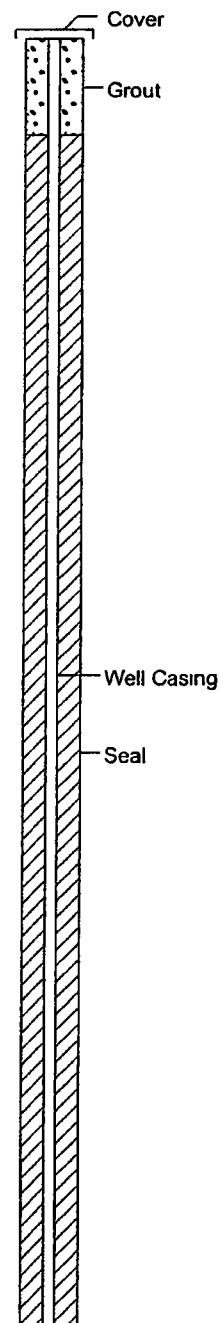
Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	09/23/03	Logged By	Alycia Wieland
Drilling Method	DPT Rig with HSA Overdrill	Boring Depth	49.0 feet
Drilling Company	Strata Core	Well Depth	54.0 feet
Sampling Method	Shelby Tube w/ Plastic Linear	Well Riser	: 0-44 feet
Ensafe Rep	Alycia Wieland	Well Screen	44-54 feet

Project Number: 7540-009

Well: MW-02
Elev: 489.10

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0	0					Concrete
	0					Concrete base fill material, gravelly, sandy, silty
	0					Clay, dark gray, no odor, plastic, occasional pebbles
	0					
	0					
	0					
5	0		DELSMW0204	CL		
	0					mottled with light brown with silt
	0					color change yellowish orange with sand and silt (increasing with depth), dry, no odor
10	0					
	0					Clayey Silty Sand, yellowish orange, mottled with light gray, very soft
	0					
	0					
	0					
15	0			SC-SM		
	0					
	0					
	0					
	0					calcite deposit to 19 feet
	0					
	0					
	0					
	0					
	0					
20	0			SM-SP		Sand, with silty and clay, yellowish orange, fine grains, subangular to angular



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BORING LOG for MW-02

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	09/23/03	Logged By	Alycia Wieland
Drilling Method	DPT Rig with HSA Overdrill	Boring Depth	49.0 feet
Drilling Company	Strata Core	Well Depth	54.0 feet
Sampling Method	Shelby Tube w/ Plastic Linear	Well Riser	0-44 feet
Ensafe Rep.	Alycia Wieland	Well Screen	44-54 feet

Project Number: 7540-009

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well: MW-02 Elev : 489.10
20	0		DELSMW0222	SM-SP		WET, grains mixed with medium size grains	 Well Casing Seal
	0			CL		Clay seem, stiff, sandy	
	0						
	0						
25	0			SM-SP		Sand, with clay (same as above) medium size grains	
	0						
	0			CL		Sandy Clay Seem	
	0					Sand with clay intermitted (same as above)	
30	0		SM-SP				
	0						
	0					with silt, wet	
	0						
35	0					No Recovery all water	
	0						
	0						
	0						
	0						
40	0						

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BORING LOG for MW-02

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
Ensafe Rep

09/23/03
DPT Rig with HSA Overdrill
Strata Core
Shelby Tube w/ Plastic Linear
Alycia Wieland

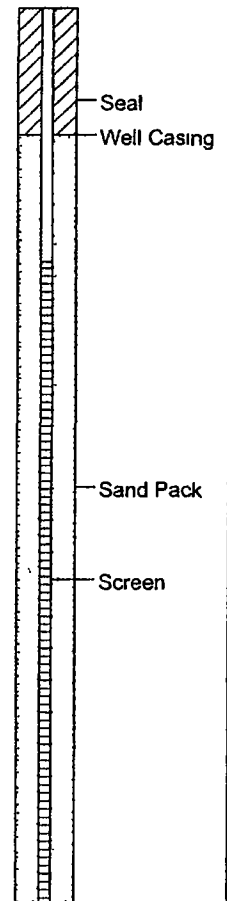
Logged By
Boring Depth
Well Depth
Well Riser
Well Screen

Alycia Wieland
49 0 feet
54 0 feet
0-44 feet
44-54 feet

Project Number: 7540-009

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
40	0					No recovery from 40-44 feet
	0					
	0					
	0					
	0			SM-SP		Sand, silty, wet, intermittened with clay, same as above
45	0					
	0					
	0					
	0					
	0					
	0					
	0					
50	0					Last 4 inches extremely hard clay, light brown mottled with greenish gray, no odor, dry (Weathered Eagle Ford Shale)
	0					
	0					
	0					
	0					
	0					
	0			SH		Eagle Ford Shale
55	0					Probe refusal at 49 feet, Set monitor well at 54 feet, Groundwater encountered at 22 feet, Top of Shale was at 52.5 feet
	0					
	0					
	0					
	0					
	0					
	0					
60	0					

Well MW-02
Elev : 489 10



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BORING LOG for MW-03

(Page 1 of 3)

**Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas**

Date Completed	09/23/03	Logged By	Alycia Wieland
Drilling Method	DPT Rig with HSA Overdrill	Boring Depth	54.0 feet
Drilling Company	Strata Core	Well Depth	55.0 feet
Sampling Method	Shelby Tube w/ Plastic Linear	Well Riser	0-55 feet
Ensafe Rep	Alycia Wieland	Well Screen	45-55 feet

Project Number: 7540-009

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0	0		DELSMW0302	CL		Clay, rootlets, occasional pebble, dry, no odor, light gray to gray, plastic, soft, oxidizing rootlets
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
5	0			SC-SM		becomes a lighter gray mottled with light brown and yellowish orange, silty and sand intermittened
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
10	0		SM		Very clayey silty Sand, gray mottled with yellowish orange, fine to medium size grains, subrounded to rounded, soft, dry	
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
15	0		SM		Silty Sand, soft, no odor, fine grains, rounded to subrounded, dry, occasional clay zones	
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
0	0					
20	0					

Well. MW-03
Elev 488.83

Cover

Grout

Well Casing

Seal

06-13-2006 g:\PROJECTS\Elfasco Forge\Grand Prairie\APAR\borings and wells\Boring Logs\IMW-03 BOR

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BORING LOG for MW-03

(Page 2 of 3)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	: 09/23/03	Logged By	: Alycia Wieland
Drilling Method	DPT Rig with HSA Overdrill	Boring Depth	: 54.0 feet
Drilling Company	Strata Core	Well Depth	: 55 0 feet
Sampling Method	: Shelby Tube w/ Plastic Linear	Well Riser	: 0-55 feet
Ensafe Rep	Alycia Wieland	Well Screen	: 45-55 feet

Project Number: 7540-009

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	
20	0		DELSMW0323	SM			<div><div></div><div>Well Casing</div><div>Seal</div></div>
0				SP		Very Coarse Sand	
0	X					Sand, same as above	
0						WET	
0							
25	0					clay content decreasing to 28 feet	
0				SM			
0							
0							
0							
30	0				CL	Clay, some silt and sand, plastic, dry, no odor, yellowish orange, medium stiff	
0						Sand, same as above, wet, fine to medium size grains	
0							
0				SM-SP			
0							
0							
35	0						
0							
0							
0							
0							
40	0			CL	Clay, with fine grains and silt		

Well: MW-03

Elev.. 488.83

06-13-2006 PROJECTS\Deltafasco Forge\Grand Prairie\APAR\borings and wells\Boring Logs\MW-Q3 BOR



BORING LOG for MW-03

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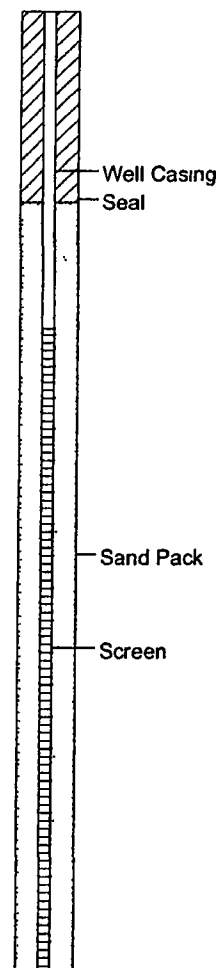
Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	09/23/03	Logged By	Alycia Wieland
Drilling Method	DPT Rig with HSA Overdrill	Boring Depth	54.0 feet
Drilling Company	Strata Core	Well Depth	55.0 feet
Sampling Method	Shelby Tube w/ Plastic Linear	Well Riser	0-55 feet
Ensafe Rep	Alycia Wieland	Well Screen	45-55 feet

Project Number. 7540-009

Well MW-03
Elev. 488.83

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
40	0					Sand, same as above
	0					
	0					
	0					
	0					
45	0			SM-SP		
	0					
	0					
	0					
	0					
50	0					
	0					
	0			GC		Clayey Gravel, subangular to subrounded, up to 15mm in diameter, some silt and sands
	0					
	0			SM-SC		Sand, same as above
	0					
	0					Weathered Eagle Ford Shale, gray, laminated, hard, dry
	0			SH		Eagle Ford Shale
55	0					Probe refusal at 54 feet, Set monitor well at 55 feet, Groundwater encountered at 24 feet, Top of Shale at 54 feet
	0					
	0					
	0					
	0					
60	0					



06-13-20... PROJECTS\Delfasco Forge\Grand Prairie\APR\borings and wells\Boring Logs\MW-03 BOR



BORING LOG for MW-04

(Page 1 of 3)

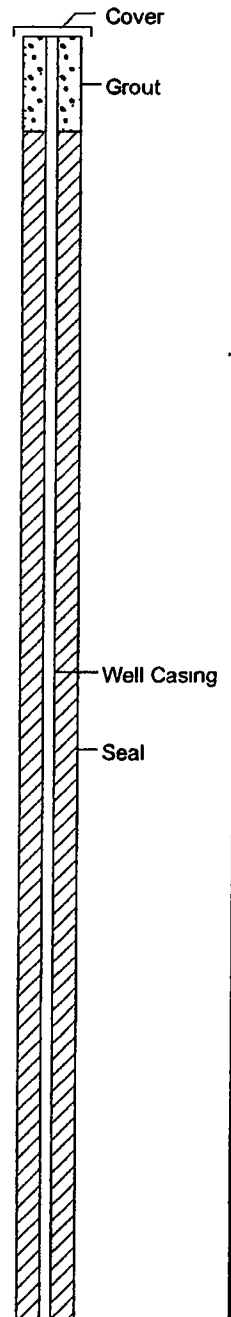
Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	09/22/03	Logged By	Alycia Wieland
Drilling Method	DPT Rig with HSA Overdrill	Boring Depth	53.0 feet
Drilling Company	Strata Core	Well Depth	55.0 feet
Sampling Method	Shelby Tube w/ Plastic Linear	Well Riser	0-55 feet
Ensafe Rep	Alycia Wieland	Well Screen	45-55 feet

Project Number: 7540-009

Well: MW-04
Elev.: 489.71

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0	0					Concrete
						Concrete base fill material
0						Clay, dark gray, no odor, stiff, plastic
0						
0						
0						
0						
5				CL		same as above with sand, mottled with brown
0						
0						
30						Sandy Clay, light brown mottled with yellowish orange, sand content increasing with depth
26						
10				CL		small gravel seem ~1 inch thick, pebbles ~1cm in diameter with silt, clay content decreased
79						
0						
0						Clayey Sand, crumbly, plastic, medium to fine grains, subrounded to rounded, slight odor, dry to damp, yellowish orange/brown, clay seems intermittened
0						
0						
15	122		DELSMW0415	SC-SM		strong sweet smell (PCE)
0						
0						
0						
0						
0						
0						
20						



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BORING LOG for MW-04

(Page 2 of 3)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed

09/22/03

Logged By

Alycia Wieland

Drilling Method

DPT Rig with HSA Overdnl

Boring Depth

530 feet

Drilling Company

Strata Core

Well Depth

55 0 feet

Sampling Method

Shelby Tube w/

Well Riser

0-55 feet

Project Number 7540-009

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
20	0					
	0					
	0					
	0	X	DELSMW0423			Clayey Sand, crumbly, plastic, medium to fine grains, subrounded to rounded, slight odor, dry to damp, yellowish orange/brown, clay seems intermittened
	0					WET
25	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0					
30	0			SC-SM		
	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0					
35	0					
	0					
	0					
	0					
	0					
	0					
	0					
	0					
40	0					

Well MW-04
Elev.: 489.71

Well Casing
Seal

06-13-2006 - \OBJECTS\Deltaasco Forge\Grand Prairie\APAR\borings and wells\Boring Logs\MW-04 BOR

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BORING LOG for MW-04

(Page 3 of 3)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	09/22/03	Logged By	Alycia Wieland
Drilling Method	DPT Rig with HSA Overdrill	Boring Depth	53.0 feet
Drilling Company	Strata Core	Well Depth	55.0 feet
Sampling Method	Shelby Tube w/ Plastic Linear	Well Riser	0-55 feet
Ensafe Rep	Alycia Wieland	Well Screen	45-55 feet

Project Number: 7540-009

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	
40	0					Sand, with silt (some occasional clayey seems), wet, light yellowish brown	<p>Well MW-04 Elev.. 489.71</p> <p>Well Casing Seal</p> <p>Sand Pack</p> <p>Screen</p>
41	0						
42	0						
43	0						
44	0						
45	0						
46	0						
47	0						
48	0						
49	0						
50	0						
51	0						
52	0						
53	0						
54	0						
55	0						
Probe refusal at 53 feet, Set monitor well at 55 feet, Groundwater encountered at 24 feet, Top of Shale at 53 feet							
60							

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BORING LOG for MW-05

(Page 1 of 3)

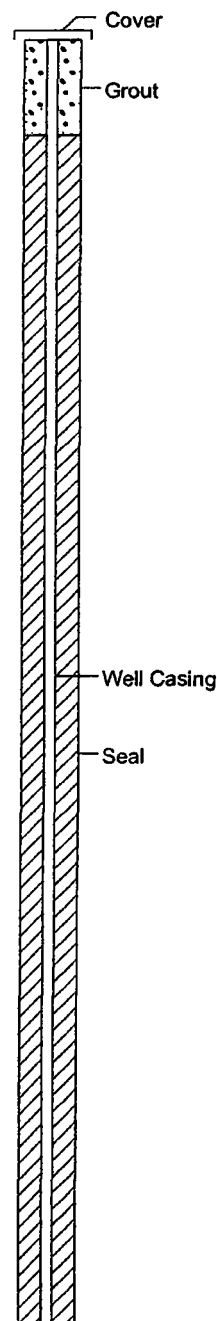
Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed	09/23/03	Logged By	Alycia Wieland
Drilling Method	DPT Rig with HSA Overdrill	Boring Depth	53.0 feet
Drilling Company	Strata Core	Well Depth	55.0 feet
Sampling Method	Shelby Tube w/ Plastic Linear	Well Riser	0-55 feet
Ensafe Rep	Alycia Wieland	Well Screen	45-55 feet

Project Number 7540-009

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
0						Fill material and asphalt, sandy
			DELSMW0502			Clay, dark gray, hard, no odor, dry, rootlets
5				CL		color gradually turning to light gray occasional pebbles
						sand and silt increasing, light gray mottled with yellowish orange and brown
10				SC-SM		Very Clayey, Silty Sand, soft, dry, no odor
						increase silt and sand content, softer
15				SM-SC		Sand, silty, with clay (intermittent), strong yellowish orange
						very plastic
20						

Well: MW-05
Elev 490.11



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BORING LOG for MW-05

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Date Completed
Drilling Method
Drilling Company
Sampling Method
Ensafe Rep

09/23/03
DPT Rig with HSA Overdrill
Strata Core
Shelby Tube w/ Plastic Linear
Alycia Wieland

Logged By
Boring Depth
Well Depth
Well Riser
Well Screen

Alycia Wieland
53 0 feet
55 0 feet
0-55 feet
45-55 feet

Project Number: 7540-009

Well: MW-05
Elev: 490.11

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
20						
			DELSMW0523	SM-SC		WET at 24 feet
25				CL		Clay, hard, yellowish orange, dry, silty
30				SC-SM		Clayey Silty Sand (same as above)
35				CL		Clay (same as the clay zone at 25 5 feet)
40						

Well Casing
Seal



BORING LOG for MW-05

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

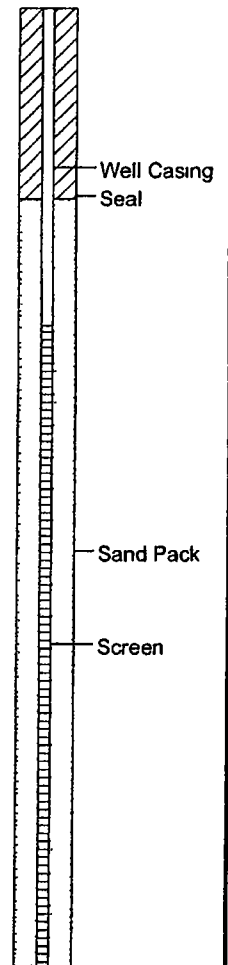
Date Completed	09/23/03	Logged By	Alycia Wieland
Drilling Method	DPT Rig with HSA Overdri	Boring Depth	53 0 feet
Drilling Company	Strata Core	Well Depth	55 0 feet
Sampling Method	Shelby Tube w/ Plastic Linear	Well Riser	0-55 feet
Ensafe Rep	Alycia Wieland	Well Screen	45-55 feet

Project Number: 7540-009

Well MW-05
Elev 490.11

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
---------------------	-----------	---------	-----------	------	---------	-------------

40						No Recovery, all water
				SC-SM		Clayey Silty Sand, wet, fine grains
						Sandy Silty Clay, reddish (brick) color
45				CL-SM		
				SC-SM		Clayey Silty Sand, Wet
						Sandy Silty Clay
50				CL-SM		
				SM		Silty Sand
						Weathered Shale
				SH		Shale
55						



Probe refusal at 52 feet, Set monitor well at 55 feet,
Groundwater encountered at 24 feet, Top of Shale at 53 feet

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BORING LOG for MW-6

(Page 1 of 2)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Started 0920 11/15/04
Finished 1815 11/15/04
Drilling Company SCI
Drilling Method Hollow Stem Auger
Sampling Continuous 5-foot runs

Geologist Mark Henderson
Northing
Easting
Depth Drilled 74.5'

Depth in Feet	Surf Elev	% Recovery	Samples	GRAPHIC	USCS	DESCRIPTION	Well: MW-6 Elev .
0					AR	Surficial conditions: concrete/artificial material (AR), to approximately 0.5'	
					CL	Grades from surficial concrete to clay, brown and stiff, at 0.5' Some sand and small pebbles present	
5		CTS 40%				From 5.0', grades as silty clay, tan, dry	
					CL/LS	From 6.0', grades with caliche nodules to 8.0'	
10		100				Grades very hard below 8.0'	
					LS/SP	At 11.5', grades as very fine sand seam (approximately 1/8"-thick)	
15		100				At 15.5', 1/2"-thick sand seam	
						At 17.5', 1"-thick sand seam	
20		100			CL	From 18.0', grades as sandy clay, moist at 19.0'.	
					SP	(21-21.25') 3"-thick fine sand.	
					CL	From 21.25', grades as silty clay, brown, very stiff.	
25		100			SP	(23-25.0') Grades as sand, very fine, well sorted Moist from 23-23.5'. Red clay lense at 24.5' (approximately 1" thick)	
					CL	(25-28.0') Grades as silty clay, brown, very stiff	
30		100				From 28.0', grades as sand, fine, tan Grades same to 73.0' (though grades medium grained at 65-70.0') No odors.	
35		40			SP		
40		60					

Sand Backfill
Granular bentonite surficial plug

Sand Backfill

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BORING LOG for MW-6

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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Started 0920 11/15/04
Finished 1815 11/15/04
Drilling Company SCI
Drilling Method Hollow Stem Auger
Sampling Continuous 5-foot runs

Geologist Mark Henderson
Northing
Easting
Depth Drilled : 74.5'

Depth in Feet	Surf. Elev	% Recovery	Samples	GRAPHIC	USCS	DESCRIPTION	Well MW-6 Elev .
40							
45		60					
50		60	⊗			Moist Sample DELSMW0650 collected at 50.0' @1130.	
55		30			SP	Wet at 54 0' Running sands below 55 0'	
60		40					
65		50					
70		80					
75					SH	At 73 0', grades to shale, gray TD=30 0'; Well set at 30.0'. NOTE The terms "sorting" and "grading" refer to a degree of textural maturity, poor to well However, the two terms are descriptively the opposite of one another sorting is a geologic term, and grading an engineering term, but both are used to describe a range of grain sizes Thus, a well sorted sand is a poorly graded sand USCS symbols refer to grading	
80							

Sand Backfill

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BORING LOG for MW-6A

(Page 1 of 2)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, TexasStarted : 1520 11/01/04
Finished : 1817 11/01/04
Drilling Company : StrataCore
Drilling Method : Hollow Stem Auger
Sampling : 5-foot BBLGeologist : Kerry Hill
Northing :
Easting :
Depth Drilled : 60 0'

Depth in Feet	Surf Elev	PID (ppm)	Samples	GRAPHIC	USCS	DESCRIPTION
0					AR	Grades from surface as surficial 6 inches of concrete, grades as silty clay, dark brown. No recovery from 0 5'-5 0'
					CL	
5		0 0			CH	At 5 0', grades to 8 0' as silty clay, light brown, sandy, to fat clay. Sporadic calcitic nodules (1-2cm) throughout.
		0.0				
		0 0				From 8 0', grades as interlaminated fat clays and silty sandy fat clays, light tan to yellowish brown
10		0 0			CH	Fining upwards texture apparent.
		0.0				
		0 0				
		0.0				
15		0 0			SP	From 14 0', grades as very fine- to fine-grained sand, silty, laminated, with occasional silty or clayey bed ~1" thick).
		0 0				Fining upwards texture apparent.
		0 0				(18 5-19 0') Grading as well sorted/poorly graded sand
20		0 0			CH	(21-22 5') Grades as fat clay, mottled tan and gray
		0 0			SC	(22 5-24 5') Grades as sandy and silty clay (very fine sand and silt), tan to yellowish brown
25		0.0			SP	(24 5-30 5') Grades as silty sand, very fine- to fine-grained, tan to yellowish tan. Fines upwards (grades to medium-grained silty sand at 27.0') Grading laminated, medium-grained sands with silts
		0.0				
		0 0				
		0.0				
30		0 0			CH	From 30 5', grades as fat clay, tan, mottled with gray
		0 0			SC	
		0.0			CH	From 33 5', grades as silt and very fine sand, tan to peach color
35		0 0				(34-34 75') Fat clay
		0.0			SP	From 34 75', grades as fine sand, tan, well sorted/poorly graded, with no fines (clays/silts)
		0 0				
		0 0				
		0 0				
40		0 0				

Well: MW-6A
Elev
Sand Backfill

Granular bentonite surficial plug
Sand Backfill

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BORING LOG for MW-6A

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**Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas**

Started	1520 11/01/04
Finished	1817 11/01/04
Drilling Company	StrataCore
Drilling Method	Hollow Stem Auger
Sampling	5-foot BBL

Geologist	Kerry Hill
Northing	
Easting	
Depth Drilled	60.0'

Depth in Feet	Surf Elev.	PID (ppm)	Samples	GRAPHIC	USCS	DESCRIPTION
40		00				From 40 0', grading as fine sand, tan, with very little silt fraction, laminated and well sorted
		00				
		00				
		00				
45		00				
		00				
		00	X		SP	Sample 46-47 0' at 1726
		00				Iron staining at 48 0'. Groundwater at 48 0'
		00				At 49.0', grading as medium-grained sand, without fines, laminated
50		00				
		00				
		00				
		00				
		00				
		00				
		00			SW	At 53.0', grades as gravel with sand, tan.
55		00				
		00				
		00				
		00				
		00			SH	From 55 5', grades as Eagle Ford Shale. TD=60 0'
60		00				
		00				
		00				
		00				
		00				
65						
70						
75						
80						

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Delfasco
project #7540

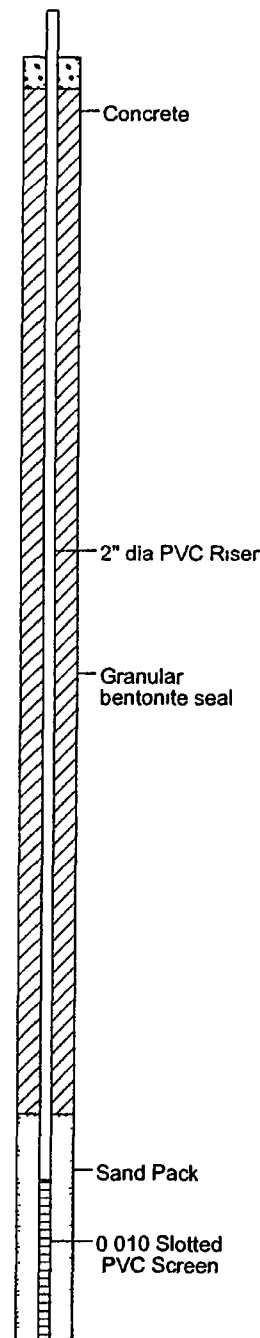
Started 0925 11/02/04
Finished 1119 11/02/04
Drilling Company StrataCore
Drilling Method Hollow Stem Auger
Sampling 5-foot BBL

Geologist Kerry Hill
Northing
Easting
Depth Drilled 60 0'

300' north of Rinehart, on McArthur

Depth in Feet	Surf Elev	PID (ppm)	Samples	GRAPHIC	USCS	DESCRIPTION
0		0.0			AR	Grades from surface as asphalt (2"), to concrete (8"), to a lime base (10-14")
		0.0			CH	At approximately 1.25', grades as fat clay, dark gray to black, with calcitic nodules. Grades to brown silty fat clay near 3 0'.
		0.0				From 3 5', grades as silty fat clay, brown
5		0.0			CH	Calcitic nodules at 8-8.5'
		0.0				
		0.0			CL	From 8 0', grades with increasing silt and sand fractions, yellowish tan
10		0.0				Perched groundwater at 11 0', but not enough to sustain well.
		0.0			GC	From 11 0', grades as sand and gravel, poorly sorted, coarse, with silt and clay matrix Eagle Ford Shale fragments in gravel fraction. Overall, orangish brown
		0.0			SC	
15		0.0			CL	From 13.0', grades as sand, poorly sorted, medium- to fine-grained, with some small gravels. Overall, tan to brown
		0.0				(15 5'-16.0') Grades as silty clay seam
		0.0			SM	From 16 0', grades as sand, silty, fine-grained, laminated, tan to light brown.
20		0.0				Fining upwards texture.
		0.0			CH	From 21.5', grades as fat clay, tan
		0.0			SM	From 22 5', grades as sand, silty, with clay.
25		0.0				(24-27 5') Grades as sand, fine, with very little silt fraction. Well sorted. Fines upwards. Iron stained gravels (1cm-2cm) at 27-27 5'.
		0.0			SP	
		0.0				From 27.5', grades as fat clay, tan
30		0.0			CH	
		0.0				(31-36.0') Grades as sand and clayey sand, finely laminated, tan to peach in color.
		0.0			SC	
35		0.0				
		0.0				(36-46 0') Grades as sand, fine, well sorted, with rare fines. Fining upwards texture
		0.0			SP	
40		0.0				

Well: MW-7
Elev .





BORING LOG for MW-7

(Page 2 of 2)

Delfasco
project #7540

Started 0925 11/02/04
Finished 1119 11/02/04
Drilling Company StrataCore
Drilling Method Hollow Stem Auger
Sampling 5-foot BBL

Geologist Kerry Hill
Northing
Easting
Depth Drilled 60 0'

300' north of Rinehart, on McArthur

Depth in Feet	Surf Elev	PID (ppm)	Samples	GRAPHIC	USCS	DESCRIPTION
---------------------	--------------	-----------	---------	---------	------	-------------

Well MW-7
Elev..

40		0 0				
		0 0				
		0 0			SP	At 43 0', grades wet but not runny Well sorted sand as above
		0 0				
45		0.0				
		0 0			CH	(46-47 0') Grades as fat clay, tan to orangish brown.
		0 0				
		0 0			SC	From 47 0', grades as sand, silty, with some clay. Sand is fine-grained
		0 0				
50		0 0				
		0 0			CL	From 50.5', grades as sand, very fine, with silty clay, mottled orange and gray
		0 0				
		0 0				
		0 0			SC	From 53.5', grades as clay and fine-grained sand, laminated gray and orange
55		0 0				
		0 0				
		0 0				
		0 0			SH	(57-60 0') Grades as Eagle Ford Shale TD=60 0'. Well set at 60 0'.
60		0.0				
		0.0				
		0.0				
		0.0				
65						
70						
75						
80						



Sand Pack
0.010 Slotted
PVC Screen

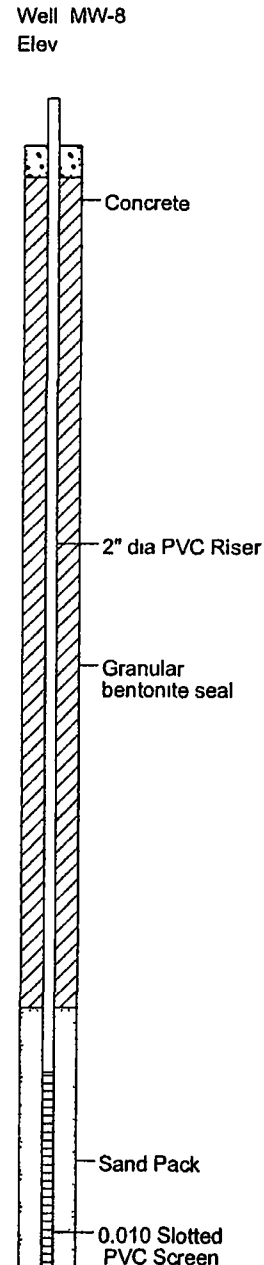
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Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Started 0940 11/01/04
Finished 1141 11/01/04
Drilling Company StrataCore
Drilling Method Hollow Stem Auger
Sampling 5-foot split barrel

Geologist Kerry Hill
Northing
Easting
Depth Drilled 54 0'

Depth in Feet	Surf Elev	PID (ppm)	Samples	GRAPHIC	USCS	DESCRIPTION	Well MW-8 Elev
0		00			AR	Grades from surface as asphalt (2"), to brown sand base (6' 5'), grades as fat clay, silty, brown	
0		00			CH	At 3 5', grades as brown, increased clay and silt fractions	
5		00			SC	From 5 5', grades as silt, clayey and sandy, with fine sand. Calcitic concretions present (approximately 1cm diameter)	
10		00			SM	(8-11 0') Grades as sand, fine, silty, light brown, laminated Grades with 1"-thick layer of calcitic nodules at clay interface at 11.0'	
10		00			SC	From 11 0', grading with clayey and silty sand.	
15		00			CH	From 12 5', grades as clay, silty and sandy, tan to light brown	
15		00			SM	From 14 0', grades as sand, fine- to medium-grained, with silt Fining upwards, laminated, brown to orangish brown. Grades with gravels in a coarse sand matrix near 16 5'	
15		00			CL		
15		00			SW	From 16 5', grades as clay, silty	
20		00			CH	(17.5-18 25') Grades as sand, coarse, with some gravel, very fine- to fine-grained sand matrix	
20		00			CH	At 18 25', grades as fat clay, tan.	
25		00			CH		
25		00			CH	At 27 5', grades as 1"-thick very fine sand lens	
30		00			SM	(28.5'-31 5') Grades as very fine sand and silt, laminated, tan Generally fining upwards, fluvial sequence	
35		00			SP	From 31 5', grades as predominantly sand, with some silt. Fine-grained sand is well washed, laminated, light tan, well sorted	
35		00			SP	At 34 0', grading as medium-grained and laminated	
35		00			SP	At 37 0', grading as medium-grained and laminated	
40		00				Sample collected at 39-40 0' at 1120	





BORING LOG for MW-8

(Page 2 of 2)

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas

Started 0940 11/01/04
Finished 1141 11/01/04
Drilling Company StrataCore
Drilling Method Hollow Stem Auger
Sampling 5-foot split barrel

Geologist Kerry Hill
Northing
Easting
Depth Drilled 54 0'

Depth in Feet	Surf Elev	PID (ppm)	Samples	GRAPHIC	USCS	DESCRIPTION	Well. MW-8 Elev..
40					SP	Groundwater at 43 0'; wet but not dripping	
45					SW	From 45 0', grades as sand, medium- to coarse-grained, beginning of fining upwards sequence to 28 0'	
50					SM	From 48 0', grades as fine- to very fine-grained sand, with silt Tan to light brown	
					SP	From 51 0', grades as sand, medium-grained, fining upwards	
					SH	From 52 5', grades as Eagle Ford Shale, gray, laminated TD=54.0' Well set at 54 0'	
55							
60							
65							
70							
75							
80							



Sand Pack
0.010 Slotted
PVC Screen

06-13-2016 PROJECTSDelfasco Forge(Grand Prairie)Offsite InvestigationWell Logs\MW-8 BOR

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BORING LOG for MW-09

(Page 1 of 3)

Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/8/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5" Split Barrel
Ensafe Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 60.0 feet
Well Depth 52.0 feet
Well Riser 0.5 - 17 feet
Well Screen 17 - 52 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-9 Elev
0						Surface Conditions Concrete and asphalt, approximately 8-10 inches	Cover
2	0			CH		At 1.0', Dark brown silty to fat clay with calcareous nodules 1mm to 3mm increasing in frequency with depth. Grades to lighter brown with depth.	Grout
4							
6				CL		At 4.5', Brown silty clay with calcareous nodules 0.5 inches to 1.5 inches	
8	0						
10						At 8.0', Brown sandy and clayey silt, soft Sand content increases with depth, laminated	Bentonite Seal
12	0			ML		At 12.0', Thin coarse sand interval, approximately 1 inch thick	Well Casing
14							
16						At 14.5', Tan to brown fine to very fine sand, laminated	
18	0			SW		At 18.0', Silty zone, approximately 1 foot thick	Sand Pack
20							

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BORING LOG for MW-09

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

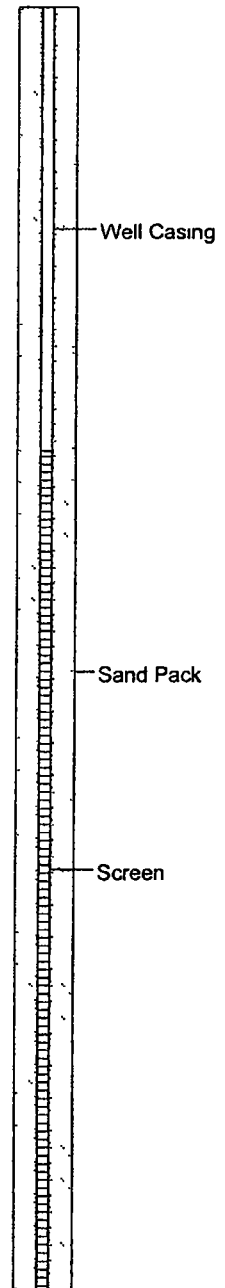
Date Completed 11/8/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafe Rep. Kerry Hill

Logged By Kerry Hill
Boring Depth 60.0 feet
Well Depth 52.0 feet
Well Riser 0.5 - 17 feet
Well Screen 17 - 52 feet

Project Number 0888801609

Well: MW-9
Elev.:

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
20						
22				SW		At 21.0', Clayey zone, approximately 2 inches thick.
24				ML		At 23.0', Tan to brown sandy, clayey silt, with clay content increasing with depth. At 24.5', Clayey gravel zone, approximately 2 inches thick
26						At 25.5', Tan to brown sandy, clayey silt, laminated At 26.0', Grey mottling in sandy intervals and old root structures present
28	0					
30				ML		Intermittent clayey zones, with an increasing clay content with depth.
32	0					
34						
36				SM		At 34.0', Peachy brown very fine sand with less than 5% clay, finely laminated, some grey mottling At 36.0', Thin 1-inch thick clay zone
38	0					
40				ML		At 39.0', Tan to yellowish brown clayey silt with fine sand, laminated At 39.5', Thin 1-inch thick clay zone



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BORING LOG for MW-09

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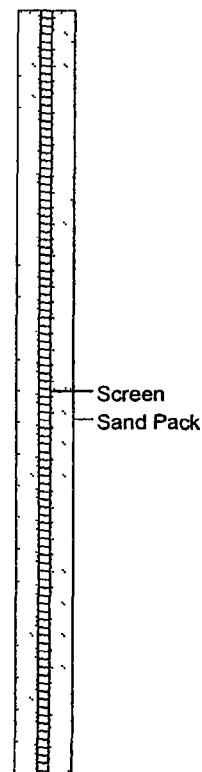
Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/8/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafe Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 60.0 feet
Well Depth 52.0 feet
Well Riser 0.5 - 17 feet
Well Screen 17 - 52 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-9 Elev
40				ML			
42							
44						At 43.0', Tan to yellowish brown fine to very fine sand, becoming coarser with depth	
46	0			SW		Thin fining upward sequences within the sand unit.	
48	0		DELSMW0949				
50	0					At 50.0', Light grey to olive green clay, soft, weathered shale	
52						At 52.0', Dark grey shale, dry	
Total Depth = 52.0 feet into Eagle Ford Shale Formation							
54							
56							
58							
60							



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BORING LOG for MW-10

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/8/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafe Rep. Kerry Hill

Logged By Kerry Hill
Boring Depth 45.0 feet
Well Depth 45.0 feet
Well Riser 0 - 25 feet
Well Screen 25 - 45 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-10 Elev
0						Surface Conditions: Asphalt, approximately 7 to 9 inches.	Cover
2	0					At 1.0', Brown silty clay with round, hard calcareous nodules 3mm to 5 mm increasing in frequency with depth Grades to siltier and sandier clay with depth	Grout
4				CL		At 5.5', Brown fine sand interval, approximately 1 foot thick	
6	0						
8							
10				SM		At 10.5', Brown silty fine sand, interbedded with fine sand.	
12	0						
14				SW		At 12.5', Brown fine silty sand with less than 15% clay, laminated, with one inch coarse sand zone at contact with above unit	Bentonite Seal
16							Well Casing
18	0					At 14.5', Brown clayey silt, silty clay laminated, blocky, with grey mottling. At 17.0', 2 to 4 inch seam of fine sand At 17.5', 2 to 4 inch seam of fine sand At 18.5', 2 to 4 inch seam of fine sand Sand content increases with depth Sand becomes coarser with depth Grey mottling more frequent with depth.	
20				ML			
22							
24						At 24.25', hard cemented calcareous zone, approximately 1 inch thick.	Sand Pack

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BORING LOG for MW-10

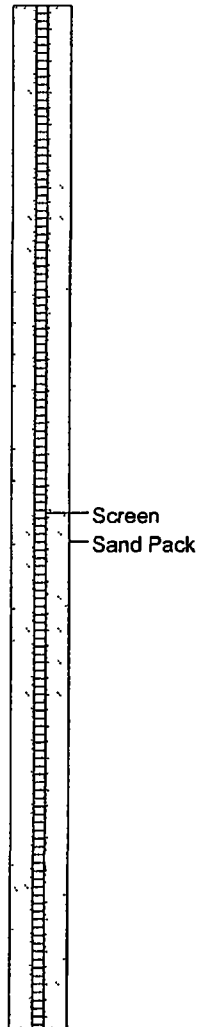
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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed	11/8/2005	Logged By	Kerry Hill
Drilling Method	4 1/4 ID HSA	Boring Depth	45.0 feet
Drilling Company	Groundwater Monitoring	Well Depth	45.0 feet
Sampling Method	5' Split Barrel	Well Riser	0 - 25 feet
Ensafe Rep	Kerry Hill	Well Screen	25 - 45 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-10 Elev
25				ML			
27	0			ML		At 26.5', Sandy silt with 2 inch sandy zones throughout.	
29				SM		At 29.0', Brown fine sand, laminated. Silty sand, sandy silt, laminated.	
31				SW		At 31.0', Fine sand, little silt or clay	
33	0			SW		Sand becomes coarser with depth	
35				CH		At 34.5', Mixed tan, brick red, grey clay, laminated	
37	0			SW		At 36.5', Tan to yellowish tan fine to medium sand with minor silt, wet	
39				CH		At 37.5', Mixed tan, brick red, grey clay, laminated Weathered shale	
41						At 41.0', Light grey to olive clay, moist and soft, weathered shale	
43						At 42.5', Dark grey shale, more competent, moist	
45						Total Depth = 45.0 feet into Eagle Ford Shale Formation	
47							
49							



Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/10/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafe Rep. Kerry Hill

Logged By Kerry Hill
Boring Depth 45 0 feet
Well Depth 42 0 feet
Well Riser 0 5 - 12 feet
Well Screen 12 - 42 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-11 Elev .
0						Surface Conditions Concrete and asphalt, approximately 1 foot	Cover
2	0			CL		At 1 0', Dark brown silty clay with calcareous nodules 3mm to 1cm, mixed with grey clay and red silty clay Fill	Grout
4							
6				CH/CL		At 5 5', Brown and grey mixed fat and silty clay, fill material	Well Casing
8	0						Bentonite Seal
10				ML		At 8 0', 4 inch thick calcareous zone Tan to yellowish tan sandy and clayey silt, dry, with increasing sand content with depth, calcareous nodules 0 5cm to 1cm.	
12	0			SW		At 10 5', 6 inch fine sand zone, wet	
14				GC		At 11 5', Brown to yellowish brown clayey, silty gravel and coarse sand Gravel is dominantly calcareous with some quartz.	
16							
18	0			ML		At 13 5', Brown to yellowish brown silty fine sand and sandy silt interbedded.	
20						Silt and clay content decreases with depth	
22				CH/CL		At 19 0', Brown silty to fat clay	Screen
24						At 20 0', Brown clay, increasing silt content with depth	Sand Pack
				ML		At 23 0', Peach to tannish brown silt and sandy silt with clay. Fine sand content increases with depth	



BORING LOG for MW-11

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

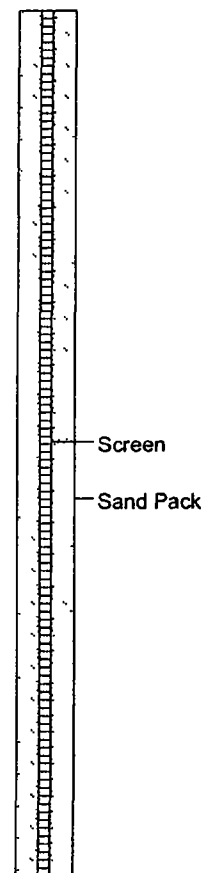
Date Completed 11/10/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafe Rep . Kerry Hill

Logged By Kerry Hill
Boring Depth 45 0 feet
Well Depth 42 0 feet
Well Riser 0 5 - 12 feet
Well Screen 12 - 42 feet

Project Number 0888801609

Well MW-11
Elev .

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
25						At 25.0', Peach to tan interval continues, very fine sand and silt, laminated
27	0			SM		
29				SM/SC		At 28 5', Tan to yellowish tan silty and clayey sand, laminated, damp, soft
31						At 31 0', 2 foot section missing. Very wet split barrel with silt and sand residue Water at approximately 32.5'
33	0			SM		
35						
37				SM		At 34.0', Tan to yellowish tan silty medium sand.
39	0	⊗	DELSMW1139	CL		At 36.0', Brck red silty clay
41				SC/SM		At 37 0', Tan to yellowish tan silty and clayey laminated sand, wet.
						At 38 0', Reddish grey silty clay, weathered shale.
						At 39 0', Dark grey weathered shale, soft



Total Depth = 42 0 feet into Eagle Ford Shale Formation

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/10/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5" Split Barrel
Ensafe Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 35 0 feet
Well Depth 35 0 feet
Well Riser 0 5 - 10 feet
Well Screen 10 - 35 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well: MW-12 Elev
0						Surface Conditions: Asphalt on concrete, approximately 1 foot thick	Cover
2	0			CH/CL		At 1.0', Dark brown fat to silty clay with calcareous concretions 2mm to 6mm, increasing in size with depth medium to fine sandy silt, cth depth	Grout
4						At 4.0', calcareous zone, approximately 1 inch thick.	Bentonite Seal
6				CL		At 5.0', Brown silty or clayey fine sand with grey mottling. Sand and silt content increases with depth At 6 0', 1 inch sand zone. At 6 75', 1 inch sand zone	Well Casing
8	0			SM		At 8 0', Brown silty or clayey medium to coarse sand with calcareous grains	
10				SW		At 9 5', Tan to yellowish tan medium sand with less than 10% silt and clay.	
12	0					At 12 0', Fine sand laminated.	
14				GC		At 12.5', Mixed clayey gravel and silty fine sand	
16				CH		At 14.5', Tan silty clay with grey mottling	Sand Pack
18	0			ML		At 16 0', Tan clayey silt with very fine sand, wet, increasing sand content with depth	Screen
20				SM/SC		At 17 5', Brown silty and clayey fine to very fine sand Sand 60%, silt 30%, clay 10%. Occasional thin clayey intervals in silty fine to very fine sand	

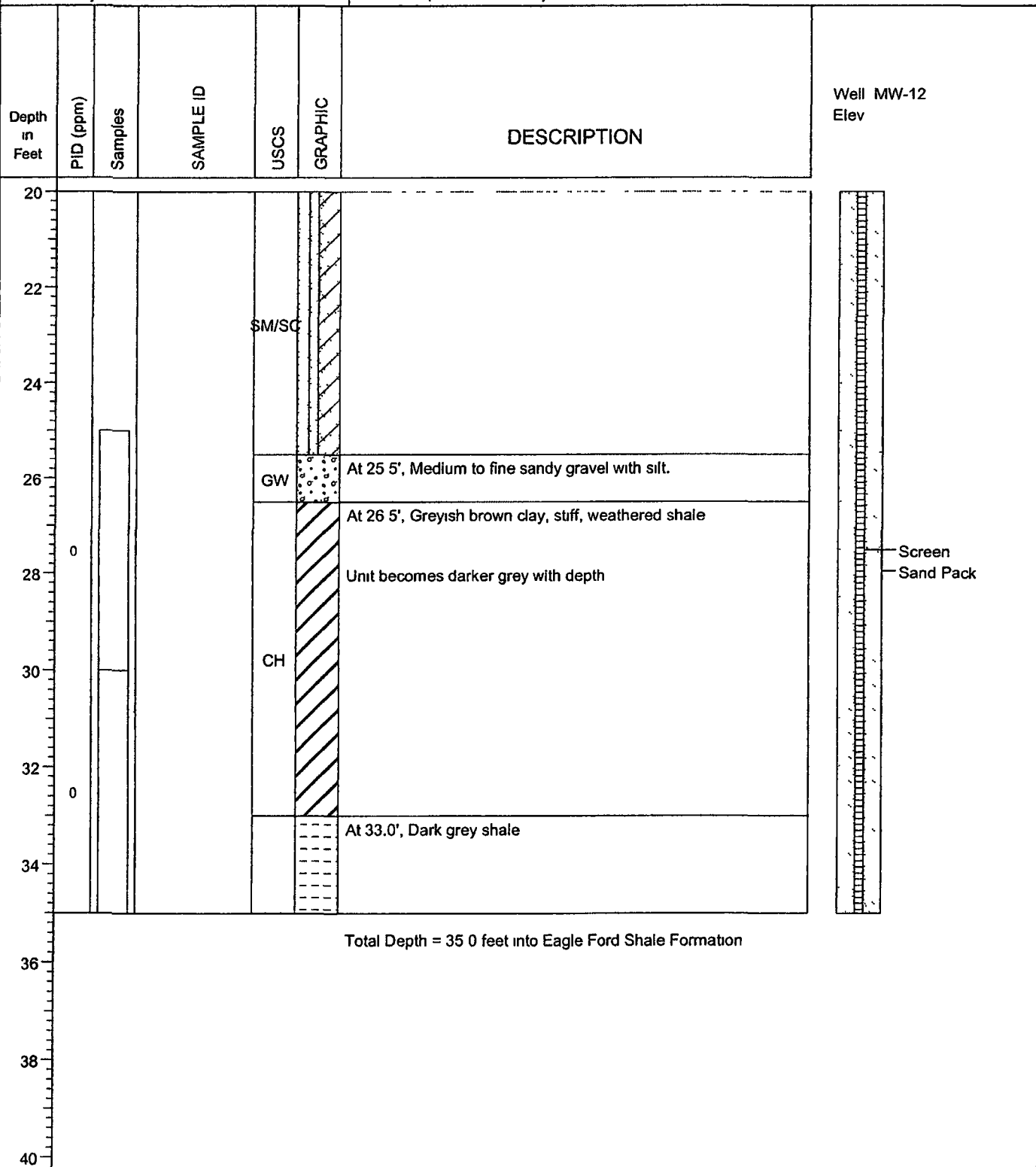


BORING LOG for MW-12

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Delfasco Forge
Offsite Investigation
Grand Prairie, TexasDate Completed 11/10/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafte Rep Kerry HillLogged By Kerry Hill
Boring Depth 35.0 feet
Well Depth 35.0 feet
Well Riser 0.5 - 10 feet
Well Screen 10 - 35 feet

Project Number 0888801609



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BORING LOG for MW-13

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Delfasco Forge
Offsite Investigation
Grand Prairie, TexasDate Completed 11/5/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafe Rep Kerry HillLogged By Kerry Hill
Boring Depth 68.0 feet
Well Depth 68.0 feet
Well Riser 0.5 - 28 feet
Well Screen 28 - 68 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-13 Elev
0						Surface Conditions: Concrete and asphalt, approximately 7 to 8 inches.	Cover
2				CH/CL		At 1.0', Brown and black silty clay and clay fill material.	Grout
4				GC		At 3.5', Gravel base material with clay	
6				CH		At 4.0', Brown to tannish brown silty clay with calcareous nodules 3mm to 8mm	
8				CH		At 7.0', Calcareous nodules become soft, 1 to 2 inches in size Clay becomes siltier	
10				SM		At 10.5', Tan very fine sand with silt, laminated	
12				ML		At 11.0', Fining upward clayey silt and silty fine to very fine sand, laminated, with calcareous nodules 1 to 1.5 inches.	
14				SM		At 14.0', Brown to tannish brown silty sand with 10-15% clay	Well Casing
16				SM/SC		At 15.0', Brown to tannish brown clayey, silty very fine sand, laminated, with thin 1 to 3 inch zones of very fine sand or clay silt or silt Sand content increases with depth	Bentonite Seal
18				SM/SC			
20				SM/SC			
22				CH/CL		At 22.0', Calcareous zone 1 inch thick or larger, hard, gravelly. At 22.5', Tan with grey mottling silty to very fine sandy clay	
24				CH/CL			

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BORING LOG for MW-13

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/5/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5" Split Barrel
Ensafe Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 68.0 feet
Well Depth 68.0 feet
Well Riser 0.5 - 28 feet
Well Screen 28 - 68 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-13 Elev
25				CH/CL			
27				ML		At 27.0', Tan with grey mottling silty and sandy clay, sand content increases with depth	
29							
31				SW		At 29.5', Tan fine sand	
33				ML/SM		At 32.0', Tan to peach silt, sand, and clay, finely laminated and cross-bedded, moist Very fine sand layers, approximately 6 inches thick	
35							
37			DELSMW1338	SW		At 35.5', Fine to very fine sand, laminated Contact is distance with iron and organic hard pan 1mm to 3mm thick, contact approximately 20 degrees to horizontal	
39				CH/CL		At 38.5', Brown to tannish brown fat clay with silt and very fine sand Sand content increases with depth	
41							
43				ML/SM		At 43.0', Tan with grey mottling mixed fine to very fine sand, sandy silt, and sandy, silty clay. Units 4 to 12 inches thick. Grey staining in sandier intervals	
45							
47							
49				SM		At 49.0', Grey very fine silty and clayey sand	

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BORING LOG for MW-13

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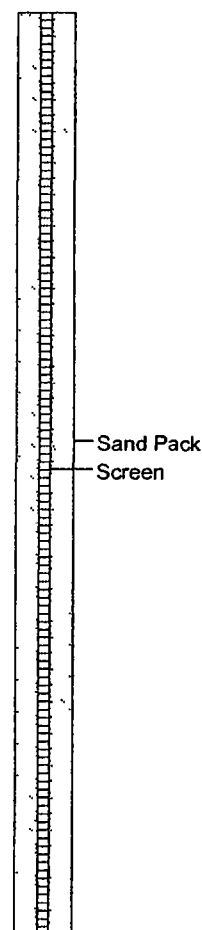
Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/5/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensaf Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 68 0 feet
Well Depth 68 0 feet
Well Riser 0 5 - 28 feet
Well Screen 28 - 68 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-13 Elev .
50							
52						Thin 2 to 6 inch silty and clayey intervals throughout the unit	
54				SM			
56							
58						At 58 5', Wet	
60				GM		At 59 5', Gravel, brown silty sand matrix	
62						At 60 5', Fine to very fine sand with silt.	
64				SM		At 63 0', Gravel zone, approximately 1 to 2 inches thick At 64.0', Gravel zone, approximately 1 to 2 inches thick	
66							
68						At 66 5', Dark grey shale	
70						Total Depth = 68 0 feet into Eagle Ford Shale Formation	
72							
74							





BORING LOG for MW-14

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/9/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafe Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 45.0 feet
Well Depth 44.0 feet
Well Riser 0.5 - 14 feet
Well Screen 14 - 44 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well: MW-14 Elev
0						Surface Conditions Concrete and asphalt, approximately 8 to 10 inches	Cover
2	0			CH		At 1 0', Dark grey to black clay with very minor silt and calcareous nodules 3mm and larger	Grout
4				CL/ML		At 3 5', Grades to brown mixed with dark grey silty clay, calcareous nodules increasing in size with depth	
6						At 4 5', Brown to yellowish-brown silty clay and very fine sand, laminated 1mm to 3mm Sand content increases with depth	
8	0						Bentonite Seal
10						Sand intervals become thicker 1 to 3 inches with depth	Well Casing
12	0			ML/SM		Calcareous nodules 0.5 to 1 inch and soft	
14							
16							
18	0			CL/CH		At 17 0', Tan to yellowish brown silty clay to fat clay, finely laminated with grey mottling	Sand Pack
20							Screen
22	0			CL/ML		At 21 5', Tan to brown silty clay, laminated with grey mottling and sandy intervals Sand content increases with depth Sand becomes coarser with depth	
24				SM		At 24 0', Coarse to medium sand, wet	

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BORING LOG for MW-14

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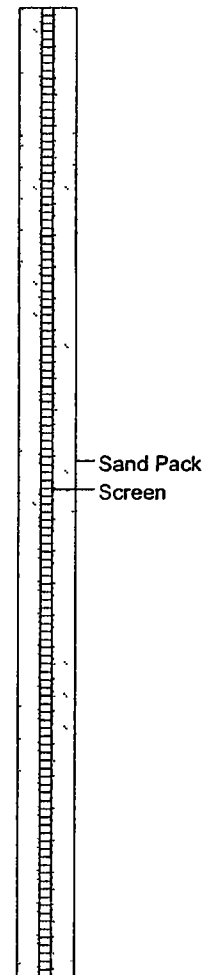
Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/9/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafe Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 45 0 feet
Well Depth 44 0 feet
Well Riser 0 5 - 14 feet
Well Screen 14 - 44 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-14 Elev
25				SM		At 25 5', Tan silt with very fine laminated sand and clay.	
27	0			SM			
29						At 28 5', Tan to yellowish tan clay Coarse sand and gravel in matrix	
31						Grey mottling less common with depth	
33	0			CH/CL			
35							
37							
39				CH/CL		At 38 0', Grey weathered shale	
41	0						
43	0		DELSMW1443	GC		At 42 0', Gravelly interval in fat clay matrix, does not appear fluvial	
						At 43 5', Olive grey to blue grey weathered shale	
Total Depth = 44 0 feet into Eagle Ford Shale Formation							
45							
47							
49							



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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/7/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafe Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 50.0 feet
Well Depth 50.0 feet
Well Riser 0 - 20 feet
Well Screen 20 - 50 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-15 Elev
0						Surface Conditions Concrete, approximately 7 to 8 inches	Cover
2	0			CH		At 1.0', Dark grey silty fat clay	Grout
4				CL		At 3.5', Grades to brown to tannish brown silty clay with calcareous nodules 4mm to 1.5cm	
6							
8	0			CL		At 8.0', Tan silty clay with some fine sand.	
10							Bentonite Seal
12	0			ML		At 10.5', Sandy silt with clay, soft	Well Casing
14				SM		At 14.0', Brown to tannish brown silty fine sand with less than 10% clay	
16						At 16.0', Silty and clayey fine sand	
18	0			SM/SC			
20				SM		At 19.5', Silty fine sand with clay, laminated. Fine sand content increases with depth.	
22	0			SM/SC		At 21.0', Silty sand, laminated. Silt and clay contents increase with depth	
24							Sand Pack
26				CH		At 24.5', Tan fat clay with some silt and fine sand, very finely laminated	Screen
28	0			SM		At 25.5', Silty and clayey fine sands.	
30				ML		At 26.5', Silt with 10-20% fine sand and 10-20% clay. Silt and clay contents increase with depth. Grey mottling increases with depth.	
				SM			

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BORING LOG for MW-15

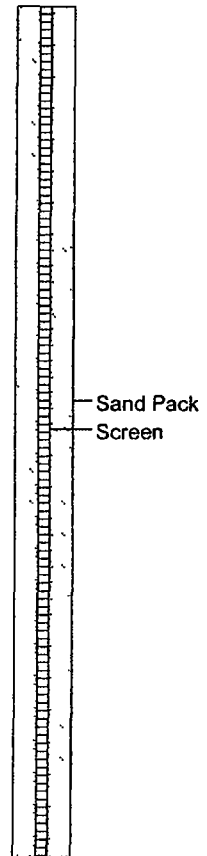
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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed	11/7/2005	Logged By	Kerry Hill
Drilling Method	4 1/4 ID HSA	Boring Depth	50 0 feet
Drilling Company	Groundwater Monitoring	Well Depth	50 0 feet
Sampling Method	5' Split Barrel	Well Riser	0 - 20 feet
Ensafe Rep	Kerry Hill	Well Screen	20 - 50 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-15 Elev .
30						At 29.5', Grey mottled fine sand with clay	
32	0			SM		At 32 0', Very fine sand with clay, mixed grey mottle with orange iron stains	
34				CH		At 34 0', Tan fat clay with some very fine sand and grey mottling	
36				SW		At 34 5', Brown very fine sand with silt and clay.	
38				ML		At 35 5', Tan to brown very fine sand and clayey silt, laminated	
40				ML/SM		At 37 0', Alternating 2 to 6 inch thick intervals of very fine sand and clayey silt	
42	0			SW		At 39.5', Light tan to brown fine to very fine sand with 5% silt and 5% clay Sand finely laminated with quartz and mica	
44							
46	0	X	DELSMW1547				
48				GW		At 47 0', Brown gravel in coarse sand matrix	
50						At 49 0', Grey shale, soft, moist	
52						Total Depth = 50 0 feet into Eagle Ford Shale Formation	
54							
56							
58							
60							



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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/18/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5' Split Barrel
Ensafe Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 60.0 feet
Well Depth 50.0 feet
Well Riser 0 - 20 feet
Well Screen 20 - 50 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-16 Elev.:
0						Surface Conditions Concrete, approximately 6 to 7 inches	Cover
2	0.2			CH		At 0.5', Dark grey fat clay with calcareous nodules	Grout
4				CL		At 4.0', Clay grades to chocolate brown, calcareous nodules more prominent.	
6				ML		At 5.0', Very little recovery 5' to 10'. Cuttings are brown to yellowish brown fine to very fine sand, clayey silt, with	
8	0			ML			
10				ML/SM		At 10.0', Alternating brown and yellowish brown silty clay and clayey, sandy, silt. Both contain fine to very fine sand. Sand content increases with depth.	Bentonite Seal
12	0			ML/SM			Well Casing
14				SM		At 13.5', Silty, clayey fine sand, laminated	
16				SM			
18	0			ML		At 16.0', Brown to yellowish brown fine to very fine sandy, clayey silt. Core breaks along sandier laminae. Silt 50%, Sand 30%, Clay 20%.	
20				ML		Sand content increases with depth	
22				ML		At 21.0', Grey mottling, approximately 2 feet thick	
24	0			SM		At 23.5', Fine to very fine sand with silt and clay. 1 to 2 inch thick coarse sand and gravel seam at base.	Sand Pack
26				SM		At 24.5', Brown to yellowish-brown silty to fat clay, with silty intervals.	Screen
28	0			CH/CL		At 28.0', Silty fine sand, wet, approximately 2 inches thick.	
30							

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BORING LOG for MW-16

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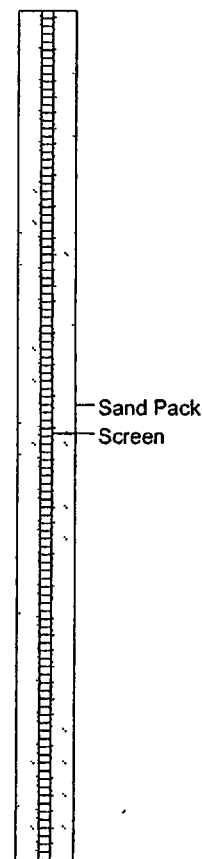
Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 11/18/2005
Drilling Method 4 1/4 ID HSA
Drilling Company Groundwater Monitoring
Sampling Method 5" Split Barrel
Ensafe Rep Kerry Hill

Logged By Kerry Hill
Boring Depth 60.0 feet
Well Depth 50.0 feet
Well Riser 0 - 20 feet
Well Screen 20 - 50 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-16 Elev
30							
32	0	☒	DELSMW1633	CH/CL		At 32.0', Brown fine to very fine sand with silt, minor staining Interbedded with silty and sandy clay 6 inches to 1 foot thick	
34				SM			
36							
38	0			SC		At 38.0', Silty fine sand with clay At 39.5', Thin layer of clay	
40							
42	0			SM/SW		At 40.5', Fine sand with minor silt and clay, laminated Sand coarsens with depth	
44							
46				SW		At 45.5', Fine sand with silt and clay	
48				GW		At 48.0', Clayey, sandy, gravel	
50						At 49.0', Olive green clay with grey mottling, weathered shale	
Total Depth = 50.0 feet into Eagle Ford Shale Formation							
52							
54							
56							
58							
60							



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BORING LOG for MW-17

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 5/22/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Alex Bartos
Boring Depth 55.0 feet
Well Depth 55.0 feet
Well Riser 0 - 20 feet
Well Screen 20 - 55 feet

Project Number. 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-17 Elev
0	0					Surface Conditions: Concrete, approximately 6 to 8 inches.	Cover
2	0			CH		At 0 5', Dark grey silty fat clay with calcareous nodules (4mm to 1cm)	Grout
4	0			CL/ML		At 3.5', Grades to olive grey silty clay	
6	0			CL/ML		At 6 5', Tan silty clay with some fine sand	
8	0			CL/SM		At 8.5', Increasing sand content with depth	Bentonite Seal
10	0			SC/SM		At 10 5', Yellowish brown clayey sand with some silt	Well Casing
12	0			SC		At 15 0', Grades to yellowish brown clayey sand	
14	0			SC		Interbedded clay seams 2 to 4" thick	
16	0			CH		At 24.0', Yellowish brown fat clay, very stiff.	
18	0			CH		Increased moisture with depth.	
20	0			SC		At 28 0', Yellowish brown clayey sand, moist	
22	0			SC		Increased sand content with depth	
24	0						Sand Pack
26	0						Screen
28	0						
30	0						

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BORING LOG for MW-17

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 5/22/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Alex Bartos
Boring Depth 55 0 feet
Well Depth 55 0 feet
Well Riser 0 - 20 feet
Well Screen 20 - 55 feet

Project Number: 0888801609

Well MW-17
Elev

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION
30	0			SC		
32	0			CH		At 33 0', Yellowish brown fat clay seam, 1 foot thick.
34	0			SC		At 34 0', Yellowish brown clayey sand, moist
36	0			CL		At 37 0', Yellowish brown clay seam, 1 inch thick
38	0			SC		At 37 5', Increased sand and moisture content with depth.
40	0			SC		Interbedded yellowish brown clay seams throughout, approximately 0 5 inches thick
42	0			SW		At 46 0', Yellowish brown flowing sands, very fine sand
44	0			CL		At 53 0', Yellowish brown clay laminated with light grey clay
46	0			SH		At 54 0', Grey shale, soft, moist.

Total Depth = 55 0 feet into Eagle Ford Shale Formation

Sand Pack
Screen

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BORING LOG for MW-18

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Delfasco Forge
Offsite Investigation
Grand Prairie, TexasDate Completed 5/22/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex BartosLogged By Alex Bartos
Boring Depth 50 0 feet
Well Depth 50 0 feet
Well Riser 0 - 30 feet
Well Screen 30 - 50 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-18 Elev
0	0			CL/ML		Surface Conditions Grass covered At 0 0', Dark brown silty clay with some sands	Cover
2	0			CL		At 1.0', Dark brown clay	Grout
4	0			CL			
6	0			CL		At 5 0', Grades to dark yellowish brown clay	
8	0			SC		At 7.0', Yellowish brown clayey sand	Bentonite Seal
10	0			SC			
12	0			CL/ML		At 13 0', Yellowish brown sandy clay with some silt, moist.	Well Casing
14	0			CL/ML			
16	0			SC		At 18 5', Yellowish brown clayey sand, very moist	
18	0			SC			
20	0			SC		At 22 5', Grey staining, slight petroleum odor	
22	0		DELZMW1824	SC		At 25 0', Yellowish brown clayey sand with silt Grey mottling increases with depth, very moist	Sand Pack
24	0			SC			
26	0			SC			
28	0			SM		At 28 0', Yellowish brown silty sand, very moist	
30	0			CL		At 29 0', Yellowish brown clay, stiff	

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BORING LOG for MW-18

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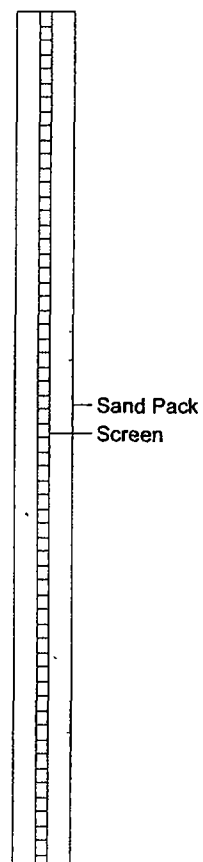
Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 5/22/2006
Drilling Method 4 25 HSA
Drilling Company : SCI
Sampling Method . 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Alex Bartos
Boring Depth 50 0 feet
Well Depth 50 0 feet
Well Riser . 0 - 30 feet
Well Screen 30 - 50 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-18 Elev
30	0			CL			
32	0			SW		At 31.0', Yellowish brown fine sand, moist.	
34	0					At 33.0', Yellowish brown fine sand, saturated	
36	0					Interbedded clays, approximately 0.5 inches thick.	
38	0			SW			
40	0						
42	0						
44	0			CL		At 43.0', Yellowish brown stiff clay with grey mottles	
46	0						
48	0			SH		At 47.0', Grey shale, soft, moist.	
50	0					Total Depth = 50.0 feet into Eagle Ford Shale Formation	
52							
54							
56							
58							
60							



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BORING LOG for MW-19

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Delfasco Forge
Offsite Investigation
Grand Prairie, TexasDate Completed 5/23/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex BartosLogged By Alex Bartos
Boring Depth 32 0 feet
Well Depth 32 0 feet
Well Riser 0 - 17 feet
Well Screen 17 - 32 feet

Project Number: 0888801609

Well MW-19
ElevDepth
in
Feet

PID (ppm)

Samples

SAMPLE ID

USCS

GRAPHIC

DESCRIPTION

Cover

Grout

Bentonite Seal

Well Casing

Sand Pack

Screen

CL/ML

Surface Conditions Grass covered Dark brown silty clay

CL/ML

At 0 5', Reddish brown silty clay with some small gravel (fill material).

At 2 0', Dark grey silty clay, moist

CL/ML

CL/ML

At 8 5', Olive grey silty clay, calcareous nodules (3mm to 1cm)

CL/ML

At 11 5', Yellowish brown silty clay Grey mottling with iron concretions and calcareous nodules (4mm to 1cm).

CL/GC

At 18 0', Dark brown gravelly clay with large calcareous nodules (5mm to 1.5cm).

DELZMW1917

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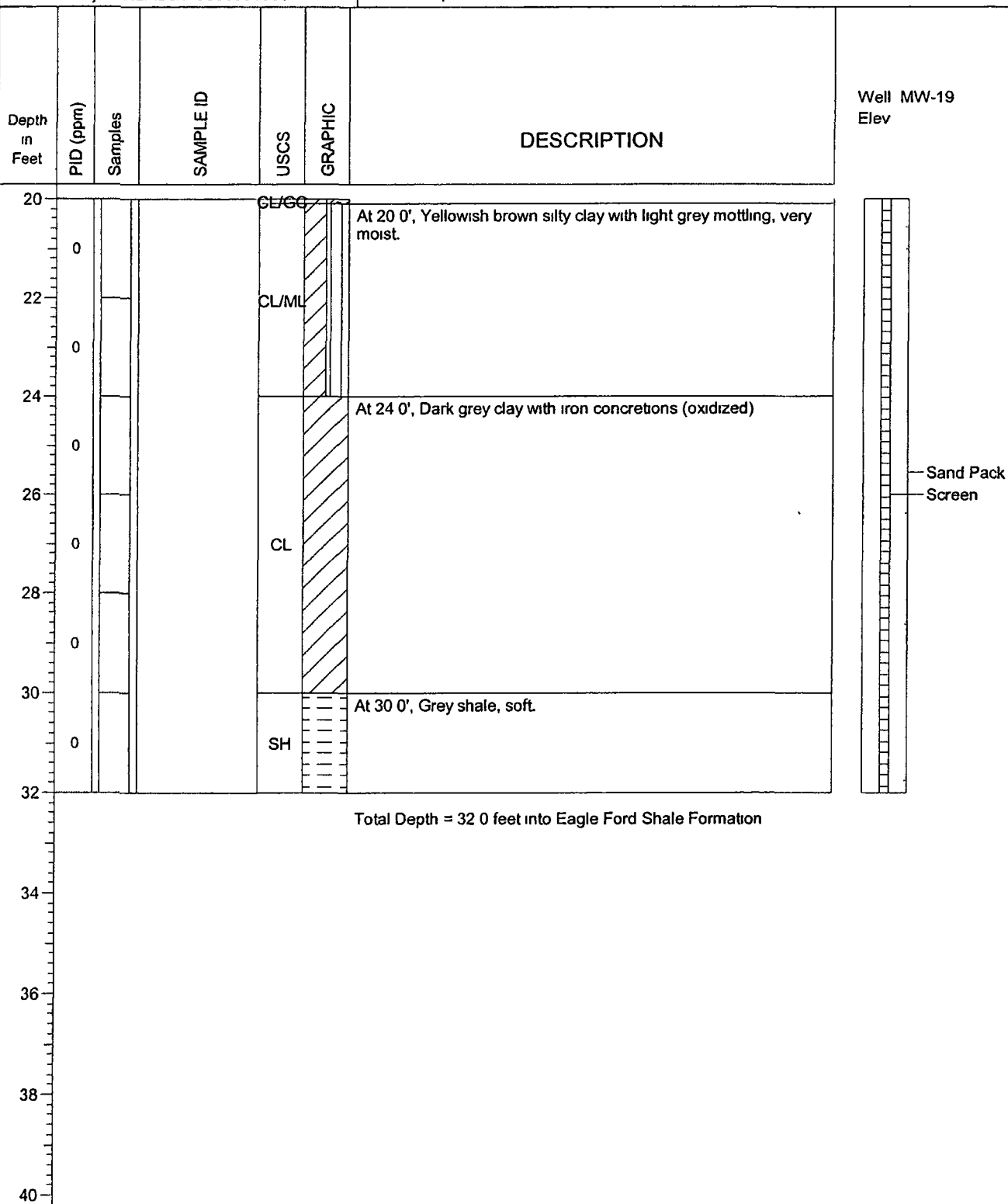


BORING LOG for MW-19

(Page 2 of 2)

Delfasco Forge
Offsite Investigation
Grand Prairie, TexasDate Completed 5/23/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex BartosLogged By Alex Bartos
Boring Depth 32 0 feet
Well Depth 32 0 feet
Well Riser 0 - 17 feet
Well Screen 17 - 32 feet

Project Number: 0888801609



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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed : 3/21/2006
Drilling Method : 4 25 HSA
Drilling Company : SCI
Sampling Method : 5' Split Barrel
Ensafe Rep : Alex Bartos

Logged By : Alex Bartos
Boring Depth : 45 0 feet
Well Depth : 45 0 feet
Well Riser : 0 - 20 feet
Well Screen : 20 - 45 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-20 Elev
0	0			SM		Surface Conditions Concrete/asphalt, approximately 6 to 8 inches.	Cover
2	0					At 0.5', Yellowish brown silty sand with some gravel (fill material)	Grout
4	0					At 1.5', Dark brown silty clay with calcareous nodules (2mm to 8mm)	
6	0			CL/ML		Grades to olive brown silty clay with calcareous nodules (2mm to 8mm)	
8	0						
10	0						
12	0			CL		At 11 0', Yellowish brown clay with olive grey mottles Calcareous nodules (5mm to 1 5cm)	Bentonite Seal
14	0					Increased mottles with depth	Well Casing
16	0						
18	0			CL/SM		At 16 0', Yellowish brown silty clay	
20	0		DELZMW2020				
22	0			CL/GC		At 20 0', Brown gravelly clay, very moist. Gravel sub-angular to rounded, approximately 5mm. Increased size and sub-angular shaped gravel with depth (1cm to 2cm)	Sand Pack
24	0						
26	0					At 25.0', Yellowish brown clay, stiff	Screen
28	0			CL		Increased stiffness with depth.	
30	0						

Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

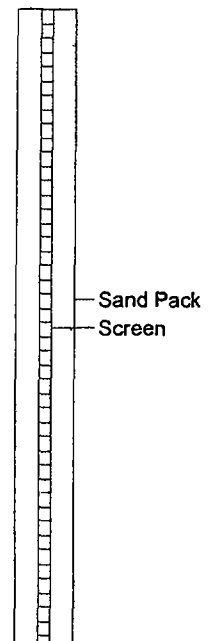
Date Completed 3/21/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Alex Bartos
Boring Depth 45 0 feet
Well Depth 45 0 feet
Well Riser 0 - 20 feet
Well Screen 20 - 45 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-20 Elev
30							
32				CL			
34						At 34.0', Grades to light brown clay with some sands.	
36				CL/SW			
38							
40				SC		At 38 5', Brown clayey sand	
42				GC		At 40.5', Brown clayey gravel, sub-angular to rounded with some fine sands	
44				SH		At 43.0', Grey shale, soft	
46				SH		At 44.0', Dark grey shale, competent.	
48							
50							
52							
54							
56							
58							
60							

Total Depth = 45 0 feet into Eagle Ford Shale Formation





BORING LOG for MW-21

(Page 1 of 1)

Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 5/23/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Alex Bartos
Boring Depth 28 0 feet
Well Depth 28 0 feet
Well Riser 0 - 13 feet
Well Screen 13 - 28 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well. MW-21 Elev .
0				CL/ML		Surface Conditions Grass covered. Dark brown silty clay with some sand.	Cover
2	0			CL/ML		At 0.5', Reddish brown silty clay with some gravel (fill material)	Grout
4	0					At 2.5', Dark brown silty clay, stiff, very dry	
6	0			CL/ML			Bentonite Seal
8	0						Well Casing
10	0					At 10.0', Yellowish brown silty clay with calcareous nodules (3mm to 8mm)	
12	0		DELZMW2113	CL/ML			
14	0					At 14.0', Yellowish brown clayey sand with grey mottling.	
16	0			SC		Increased sand content and moisture with depth.	
18	0						
20	0			CL/SC		At 19.0', Grades to yellowish brown sandy clay.	Sand Pack
22	0			SW		At 20.0', Yellowish brown fine sands, saturated	Screen
24	0			CL/GC		At 22.0', Yellowish brown gravelly clay	
26	0			ML/CL		At 23.5', Olive grey clayey silt. Blocky with iron staining (oxidized)	
28	0			SW		At 25.0', Yellowish brown fine sands, saturated.	
30				SH		At 27.0', Grey shale, soft.	

Total Depth = 28 0 feet into weathered shale

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 3/21/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep. Alex Bartos

Logged By Alex Bartos
Boring Depth 30 0 feet
Well Depth 30 0 feet
Well Riser 0 - 15 feet
Well Screen 15 - 30 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well MW-22 Elev
0				SM		Surface Conditions. Concrete/asphalt, approximately 6 to 8".	Cover
2	0			CL		At 0.5', Reddish brown silty sands with some gravel (fill material).	Grout
4	0			CL		At 1 0', Dark grey clay with calcareous nodules (5mm to 8mm)	
6	0			CL/SC		At 5 0', Yellowish brown sandy clay with calcareous nodules (5mm to 8mm)	Bentonite Seal
8	0			CL		At 9 0', Yellowish brown clay seam.	Well Casing
10	0			CL		At 10 0', Yellowish brown clayey sand	
12	0		DELZMW2213	SC			
14	0			SM		At 14 0', Yellowish brown silty fine sands	
16	0			CL		At 17 0', Yellowish brown clay seam, 2 inches	
18	0			SM		At 17 5', Yellowish brown silty fine sands, moist.	
20	0			SM		Increased moisture with depth, saturated at 20 5'	
22	0			CL		At 22 0', Yellowish brown stiff clay	Sand Pack
24	0			CL		At 24 5', Grades to light grey stiff clay	Screen
26	0 1			CL			
28	0 3			SH		At 28 0', Grey shale, soft.	
30						Total Depth = 30 0 feet into Eagle Ford Shale formation	

06-13-20... PROJECT DELFASCO FORGE GRAND PRAIRIE OFFSITE INVESTIGATION WELL LOGS MW-22 BOR

Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 3/20/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Alex Bartos
Boring Depth 40 0 feet
Well Depth 40 0 feet
Well Riser 0 - 20 feet
Well Screen 20 - 40 feet

Project Number: 0888801609

Well MW-23
Elev

Depth
in
Feet

PID (ppm)

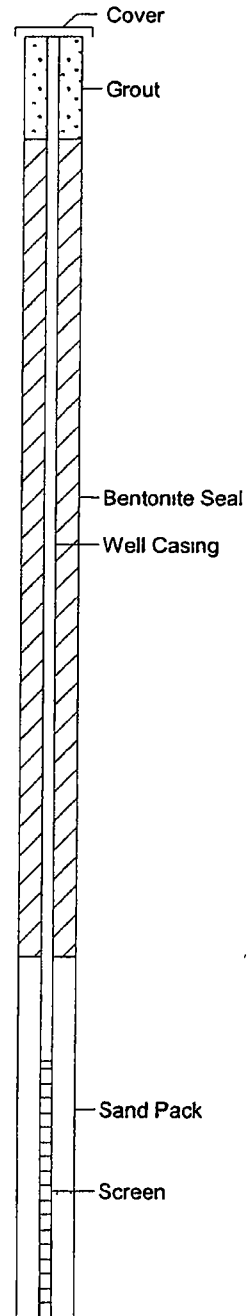
Samples

SAMPLE ID

USCS

GRAPHIC

DESCRIPTION



0					Surface Conditions: Concrete/asphalt, approximately 6 to 8".
1.5					At 0.5', Dark brown clay. Calcareous nodules increase with depth (5mm to 1cm).
2				CL	
0.8					
4					
0.8					
6				CL/ML	At 5 0', Yellowish brown silty clay with some fine sands
0					
8				CL	At 6 5', Yellowish brown clay with grey mottles, laminated
0					
10				SC	At 8 5', Yellowish brown clayey sand seam
0					
12				CL	At 9 5', Yellowish brown clay with grey mottles, laminated. Calcareous nodules (5mm to 1cm) Increased stiffness with depth
0					
14					
0					
16				SW	At 15 0', Yellowish brown very fine sands, dry
0					
18				SM	At 16 5', Grades to reddish brown silty very fine sands.
0					
20				CL/ML	At 17 5', Yellowish brown silty clay seam, stiff
0					
22					At 18 0', Yellowish brown very fine sands
0					
24				SW	Sands increase in size and moisture with depth
0					

DELZMW2320



BORING LOG for MW-23

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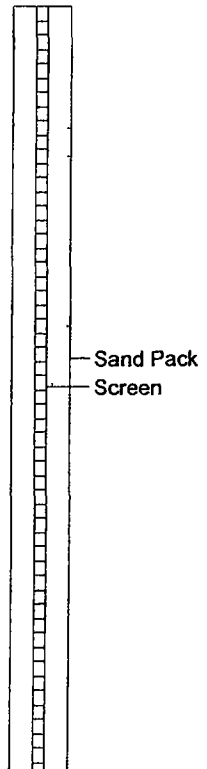
Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 3/20/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Alex Bartos
Boring Depth 40 0 feet
Well Depth 40 0 feet
Well Riser 0 - 20 feet
Well Screen 20 - 40 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well: MW-23 Elev .
25	0						
27	0			SW			
29	0						
31	0					At 30 0', Grades to brown medium to coarse sands, saturated	
33	0			SW			
35	0						
37	0 1					At 37 0', Grey shale, soft.	
39	0			SH		Increasing competency with depth	
41						Total Depth = 40 0 feet into Eagle Ford Shale formation	
43							
45							
47							
49							





BORING LOG for MW-24

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 5/23/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Alex Bartos
Boring Depth 40 0 feet
Well Depth 40 0 feet
Well Riser 0 - 10 feet
Well Screen 10 - 40 feet

Project Number: 0888801609

Well: MW-24
Elev.:

Depth
in
Feet

PID (ppm)

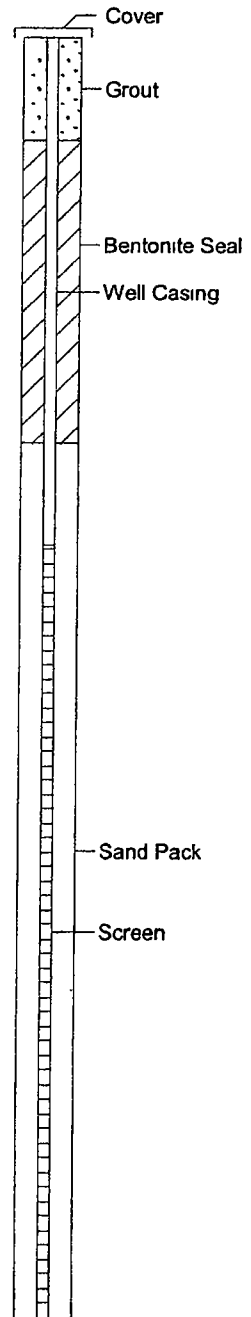
Samples

SAMPLE ID

USCS

GRAPHIC

DESCRIPTION



0				SM	Surface Conditions. Concrete/asphalt, approximately 6 to 8".
0					At 0.5', Reddish brown silty sand (fill material).
2					At 1 0', Dark brown clay, stiff
0				CL	
4					
0					
6					At 6 0', Grades to olive brown silty clay with calcareous nodules (5mm to 1cm)
0					
8				CL/ML	Increased calcareous nodules with depth.
0			DELZMW2410		
10					At 10 0', Olive brown gravelly clay with fine sands. Gravel sub-angular (1cm to 1 5cm), dry
0					
12				CL/GC	
0					
14					
0					
16				CL/GC	At 16 0', Grades to yellowish brown gravelly clay with fine sands. Gravel sub-angular (1cm to 1 5cm), moist
0					
18				CL	At 18.0', Yellowish brown clay seam, approximately 2 inches
0				CL/GC	At 18.5', Yellowish brown gravelly clay with fine sands.
20				GC/SV	At 19 5', Yellowish brown clayey gravel with sands, saturated.
0				GM	At 20.0', Grades to yellowish brown silty gravel with sand. Gravel sub-angular to rounded (5mm to 2cm), saturated
22					
0				CL	At 22 0', Yellowish brown clay, stiff
24					
0				CL	

06-13-06 3:13 PM PROJECTS\DELASCOS FORGE\GRAND PRAIRIE\OFFSITE INVESTIGATION\WELL LOGS\MW-24 BOR

Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 5/23/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Alex Bartos
Boring Depth 40 0 feet
Well Depth 40 0 feet
Well Riser 0 - 10 feet
Well Screen 10 - 40 feet

Project Number: 0888801609

Well MW-24
Elev.:

Depth
in
Feet

PID (ppm)

Samples

SAMPLE ID

USCS

GRAPHIC

DESCRIPTION

25	0					At 24 5', Yellowish brown clay with light grey mottles
27	0			CL		Increased grey mottles with depth
29	0					
31	0			CL		At 30 0', Increased silt and sand content with depth
33	0			CL/GC		At 32 0', Yellowish brown gravelly clay (2 5cm to 5cm).
35	0			CL/GC		At 34 0', Grades to olive grey gravelly clay
37	0 1			GC		At 36 0', Clayey gravel seam with silts, saturated
39	0			CL/GC		At 36.5', Olive grey gravelly clay
				SH		At 38.0', Grey shale, soft.
				SH		At 38.5', Grey shale, competent.



Sand Pack
Screen

Total Depth = 40 0 feet into Eagle Ford Shale formation



BORING LOG for MW-25

(Page 1 of 2)

Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 5/23/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Randy Stuart
Boring Depth 41 0 feet
Well Depth 41 0 feet
Well Riser 0 - 19 feet
Well Screen 19 - 41 feet

Project Number 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC
0					
0					
2				CL	
0					
4				CH	
0					
6				CH	
0					
8				CH	
37.2					
10				CH	
0					
12				CL/SC	
413					
14				SC	
16.8					
16				SC	
11.1					
18				GM	
15.4					
20			DELZMW2520	CH	
0					
22				CH	
0					
24					
0					

DESCRIPTION

Surface Conditions Concrete/asphalt, approximately 6".

At 0 5', Dark brown sandy clay with some coarse sand to pea gravel. Dry to very slightly moist, moderately plastic, hard

At 4 0', Olive grey clay with some sand and gravel Slightly moist, plastic, hard

At 8 0', Olive and brownish yellow mottled clay with some sand Slightly moist, plastic, hard

At 12 0', Yellowish brown sandy clay with light grey clay mottling Slightly moist. Increasing sand content with depth

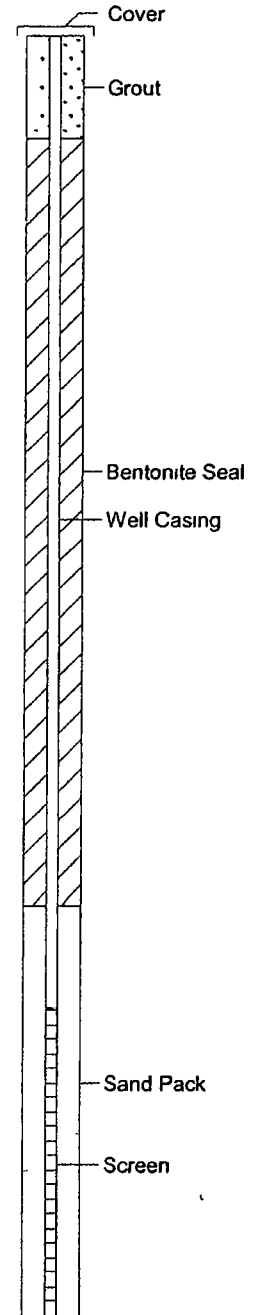
Calcareous nodules layer, approximately 0.5 inches

At 15.0', Yellowish brown clayey sand with light grey mottles Slightly moist, plastic, very firm

At 17.0', Yellowish brown gravelly clay with sand Light grey and red mottling Wet, moderately plastic.

At 19 0', Yellow greyish brown clay with light grey mottling Moist, plastic

Well MW-25
Elev



08-13-24 PROJECTS\DEL FASCO FORGE\GRAND PRAIRIE\OFFSITE INVESTIGATION\WELL LOGS\MW-25 BOR



BORING LOG for MW-25

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Delfasco Forge
Offsite Investigation
Grand Prairie, Texas

Date Completed 5/23/2006
Drilling Method 4 25 HSA
Drilling Company SCI
Sampling Method 5' Split Barrel
Ensafe Rep Alex Bartos

Logged By Randy Stuart
Boring Depth 41 0 feet
Well Depth 41 0 feet
Well Riser 0 - 19 feet
Well Screen 19 - 41 feet

Project Number: 0888801609

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	USCS	GRAPHIC	DESCRIPTION	Well. MW-25 Elev .
25	0						
27	0						
29	0			CH			
31	0						
33	0			CL		At 32.0', Yellowish grey clay with gravel Slightly moist, plastic, very hard	
				CL		At 33.0', Reddish brown iron bed, approximately 3 inches	
						At 33.5', Greenish grey clay, laminated with some brownish yellow beds Moist, plastic	
35	0			CL		Increasing dark beds	
37	0						
39	0			CL/GC		At 38.0', Dark grey gravelly clay Wet, firm	
41				SH		At 40.0', Dark grey shale, laminated Dry, hard	
Total Depth = 41 0 feet into Eagle Ford Shale formation							
43							
45							
47							
49							

Sand Pack
Screen

06-13-20 PROJECT/Delfasco Forge/Grand Prairie/Offsite Investigation/Well Log/MW-25 BOR